

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
SITE INSPECTION REPORT
FOR PRECISION METALSMITHS, INC.
US EPA ID# WID 003982709
NOVEMBER 14, 1988

US EPA RECORDS CENTER REGION 5



399748

Signature Page
For
Precision Metalsmiths, Inc. Site

Prepared By: Michael Schmoller
Mike Schmoller - Southern District
WDNR

Date: 11/3/88

Approved By: Robin Schmidt
Robin Schmidt - Central Office
WDNR

Date: 11/14/88

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1. Introduction

The Wisconsin Department of Natural Resources (WDNR) was tasked by the United States Environmental Protection Agency (U.S. EPA), in accordance with the terms of the Cooperative Agreement, to conduct a Screening Site Inspection (SSI) of the Precision Metalsmiths, Inc., site.

The site was discovered in 1978 when the company filed a Wisconsin Administrative Code NR 101 Reporting Form for wastewater discharge. WDNR personnel evaluated the Precision Metalsmiths site in the form of a Preliminary Assessment (PA) in 1985. By assuming that the reported concentrations and quantities of metals in the discharge waters were reasonably constant over the operating period of the plant, the site ranked a medium priority for followup inspection and investigation. (See Appendix F for the Preliminary Assessment calculation of potential heavy metal loadings to the site).

The WDNR SSI was conducted May 23, 1988, and included a site reconnaissance and the collection of 2 soil samples and 1 water supply sample. A map showing the site location is included (Figure 1). Appendix A contains a 4 mile radius map of the site location.

Precision Metalsmiths Inc. Site

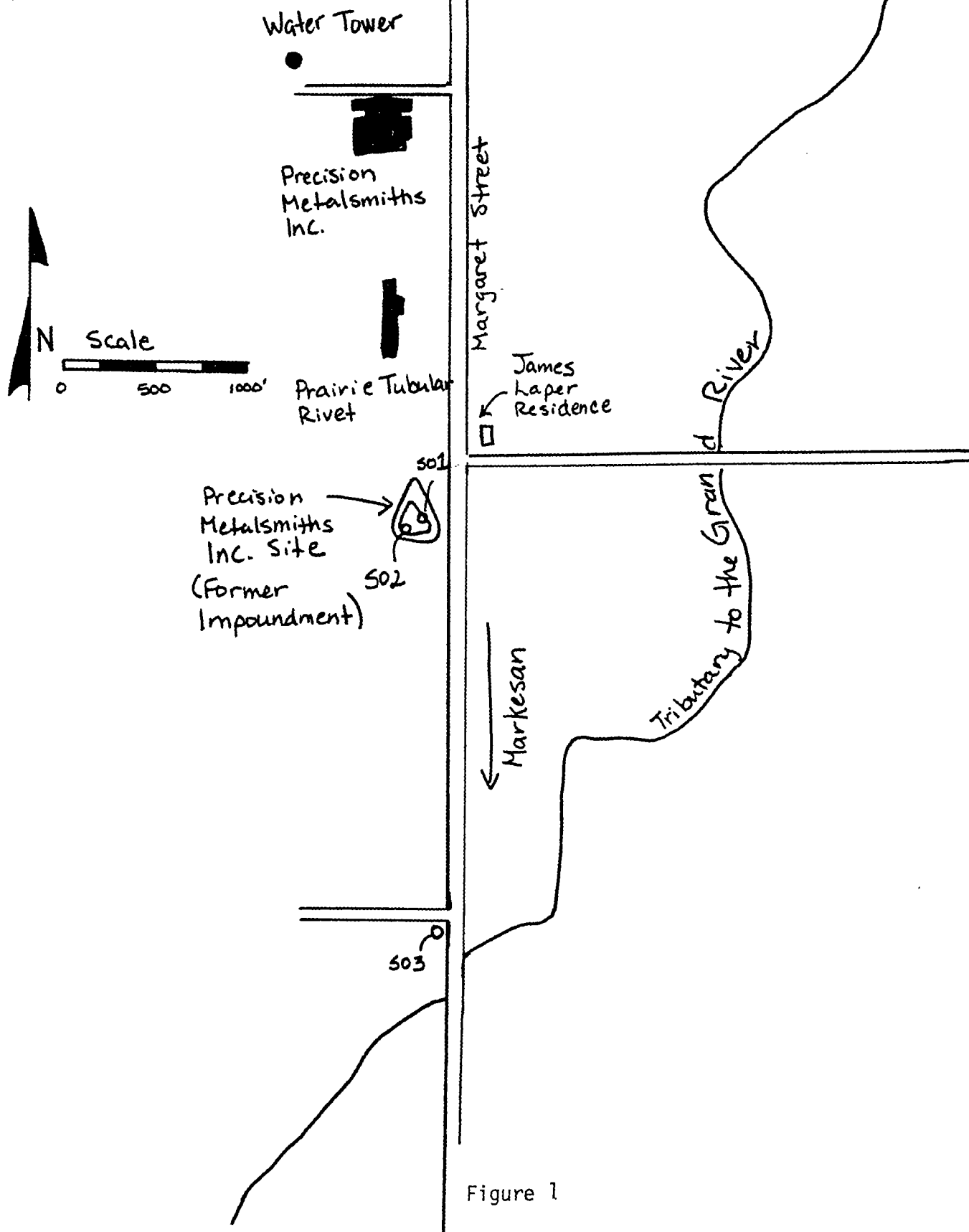


Figure 1

2. Site Background

2.1 Introduction

This section includes information obtained from the SSI work plan preparation.

2.2 Site Description

The Precision Metalsmiths, Inc., site consists of an unlined surface impoundment where industrial process and cooling wastewater from a metal plating operation was disposed. The site covers approximately .5 acres and is located 0.6 miles north of the City of Markesan, Green Lake County, Wisconsin. The site borders North Margaret Street on the west. The legal description is the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 6, T14N, R13E. Land use in the immediate vicinity of the site is agricultural (U.S.G.S., 1984) with some residential and industrial. Currently the impoundment is dry and has cattails growing in it. The impoundment is abandoned and there is no sign of any industrial waste disposal activity on the site.

2.3 Site History

Precision Metalsmiths, Inc., is a small parts metal plater which has been in operation at its present location since 1956. It is located to the north of the former impoundment of concern. Beginning sometime in the early 1960's until 1978, the firm discharged noncontact cooling water and process wastewater into a ditch located along North Margaret Street. The ditch ran south approximately 0.4 miles to the unlined surface impoundment. The process water contained low concentrations of metals as documented in a Wisconsin Administrative Code NR 101 Reporting Form located in WDNR Industrial Waste Water files.

It is not clear if the impounded process water seeped through the pond bottom or drained into the Grand River via surface ditches. It is likely, based on site soil conditions, that the water partially infiltrated and partially flowed through the impoundment.

In 1978 process wastewater was diverted to the Markesan Waste Water Treatment Plant. Since 1979 or 1980, noncontact cooling water has been cooled and recirculated on site at Precision Metalsmiths in a cooling tower. Consequently, no wastewater has been discharged to the impoundment since 1979 or 1980.

3. Screening Site Inspection Procedures and Field Observations

3.1 Introduction

This section outlines procedures and observations of the SSI of the Precision Metalsmiths, Inc., site. Individual sections address the site reconnaissance and sampling procedures. The SSI was conducted in accordance with a U.S. EPA approved work plan.

A U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Precision Metalsmiths, Inc., site is provided in Appendix B.

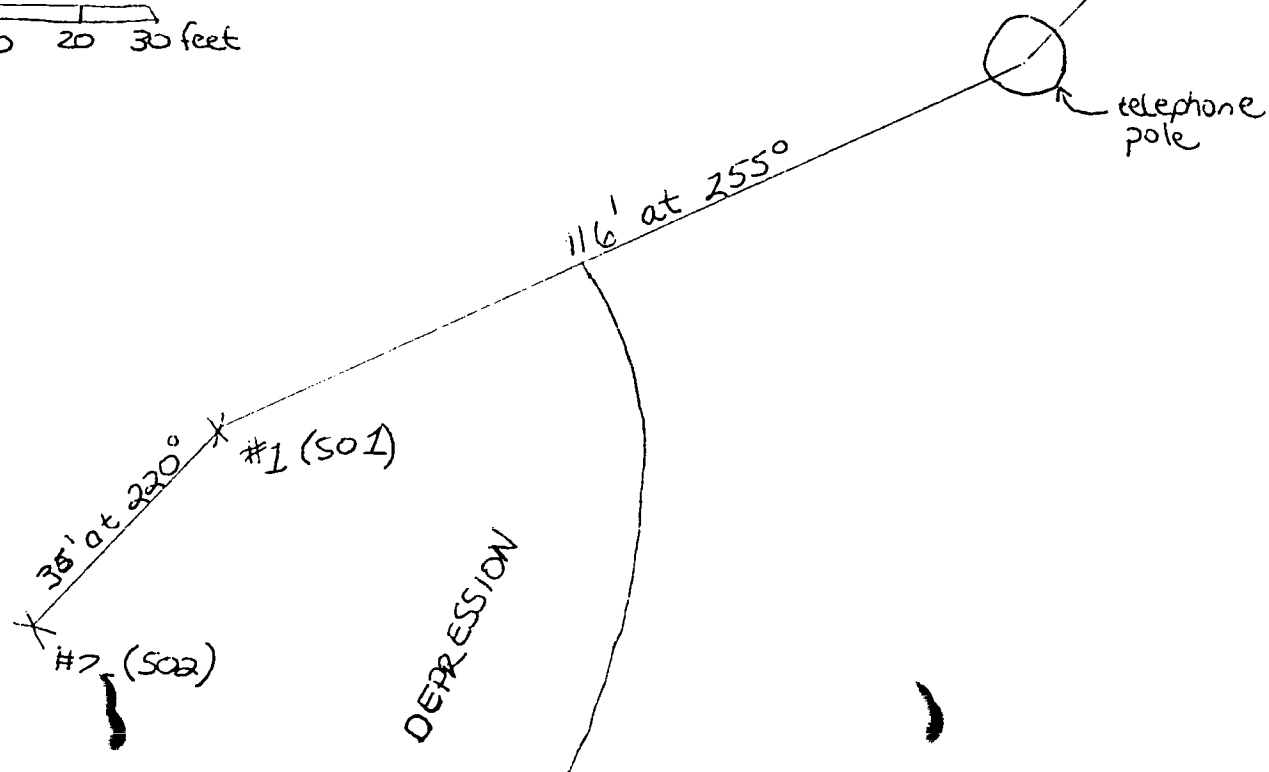
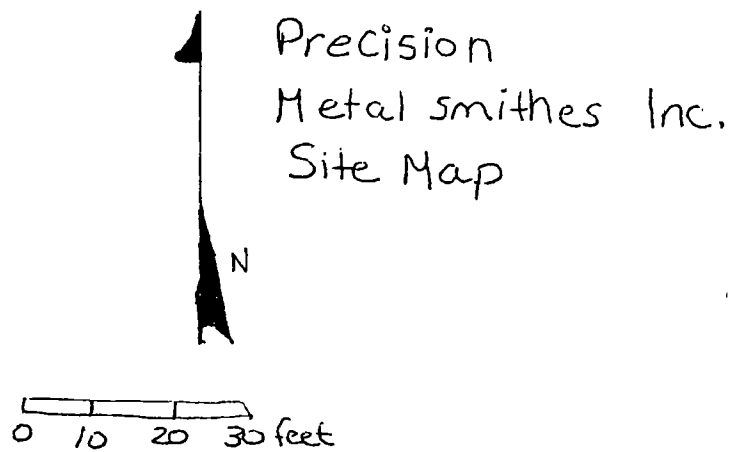
3.2 Reconnaissance Inspection

WDNR conducted a reconnaissance inspection in April, 1988 of the Precision Metalsmiths, Inc., site and surrounding area. The reconnaissance consisted of a walk through of the former impoundment to determine appropriate health and safety requirements to conduct sampling activities and make observations in connection with site characterization. Sampling locations were also determined. It was decided that level D protection was needed for sampling at this site.

Additional Observations

The Precision Metalsmiths, Inc., site is located .6 miles north of the City of Markesan on North Margaret Street. The former impoundment is located in a topographic low and has a berm built up around it (Figure 2). The area is characterized as having a rolling terrain and small hills. Grass, cattails, and boxelders are growing on and around the site. Land use surrounding the site is largely agricultural, residential, and industrial. There are no barriers surrounding the site for restricting site access.

The Grand River is .7 miles south of the site, Little Green Lake is 1 mile to the west. No barrels, trash or any hazardous waste were observed at the site.



Margaret Street

Figure 2

3.3 Sampling Procedures

Samples were collected by WDNR at locations determined during the reconnaissance investigation. On May 23, 1988, WDNR personnel took 2 soil samples from inside the former impoundment and one water sample from Markesan municipal well number 3. No background samples were taken. Samples were not split with the potentially responsible party.

Soil Sampling Procedures

Grab soil sample S01 was collected at the eastern edge of the former impoundment where the process water entered the impoundment. The location was chosen because it was a topographic low within the former pond and probably held standing water longer than other spots. Grab soil sample S02 was collected at the southwestern edge of the impoundment at a point as far as possible from S01 but still in the impoundment. This was done to determine the horizontal extent of any contamination (See Figure 2).

A stainless steel scoop was used to collect samples S01 and S02. A shovel was used to remove leaves and cattails, then the scoop was used to dig down 6 to 12 inches to obtain the sample. The sample was placed into glass jars provided by the Contract Laboratory Program (CLP). The stainless steel scoop was decontaminated between sampling using analconox water solution and triple rinsing with Milli Q water. All samples were packaged and shipped in accordance with U.S. EPA CLP required procedures.

As directed by the U.S. EPA, samples S01 and S02 were analyzed for total metals concentrations by Nanco Labs Inc., in Wappinger Falls, New York.

Municipal Well Sampling Procedures

One water sample (S03) was collected to determine if metals had migrated from the site via groundwater. Markesan City well no. 3 was chosen because it is located approximately .6 miles south of the former impoundment (see Figure 3). The water was collected in a 1 liter plastic bottle provided by the CLP. Nitric acid was used to lower the pH to less than 2 and preserve the sample. No duplicate or background samples were taken. As directed by U.S. EPA, the water supply sample was analyzed for metals by Nanco Labs Inc., of Wappinger Falls, New York.

CITY OF MARKESAN

N

Area of
Impoundment
location

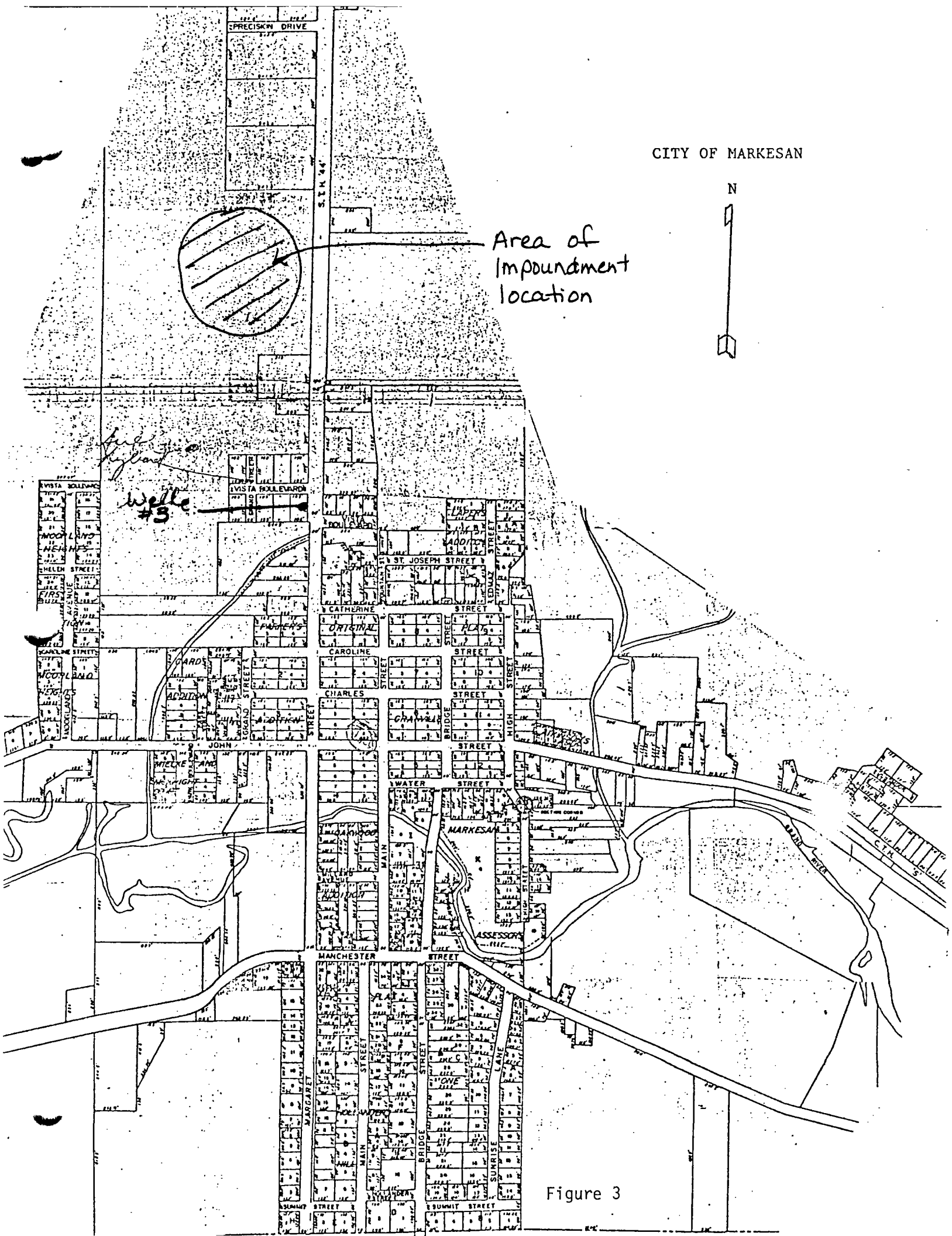


Figure 3

4. Analytical Results

4.1 Introduction

This section includes results of chemical analysis of soil and water samples collected on site.

4.2 Results of Chemical Analysis of Samples

The results of the soil and water sample analysis through the CLP are shown in Table I. The complete package of analytical data is contained in Appendix E. All samples collected were tested for heavy metal constituents.

Table I

Analytical Results of Environmental Samples¹

METALS/CYANIDE ANALYSIS

Sample Number	Instrument Detection Limit	S01		S02		S03	
Traffic Report Number		MEU513		MEU515		MEU516	
Concentration Units		mg/Kg		mg/Kg		ug/l	
Aluminum	200	12400		16500		175	U
Antimony	60	15	UJ	16.7	U	60	U
Arsenic	10	6.2		6.1		3	U
Barium	200	110		130		50	U
Beryllium	5	1		1.1		1	U
Cadmium	5	1.3	U	1.4	U	5	U
Calcium	5000	11200		2900		67100	
Chromium	10	20		24		10	U
Cobalt	50	9.8		9.7		15	U
Copper	25	25		18		40	
Iron	100	17500		20800		380	
Lead	5	12		17		5.5	
Magnesium	5000	8500		3700		34900	
Manganese	15	660	J	490		27	
Mercury	0.2	0.1	U	0.1	U	0.2	U
Nickel	40	21		20		25	U
Potassium	5000	1200		1400		2000	U
Selenium	5	0.5	UJ	0.6	UJ	2	U
Silver	10	2.5	U	2.8	U	10	U
Sodium	5000	500	U	555.6	U	4100	
Thallium	10	0.5	U	0.6	U	2	U
Vanadium	50	32		40		25	U
Zinc	20	49		56		61	

Source: EPA Contract Laboratory Program.

¹ See Appendix E for explanation of data qualifiers.

5. Discussion of Migration Pathways

5.1 Introduction

This section discusses data and information that applies to potential migration pathways. The five migration pathways of concern for scoring a site under the Hazard Ranking System include groundwater, surface water, air, fire and explosion and direct contact.

5.2 Groundwater

Based on the analytical results from sample S03, it does not appear that groundwater is a contaminant migration pathway. Sample S03 was taken from the Markesan Municipal Well No. 3.

Of the twenty-three parameters tested for, fifteen were not detected based on instrument detection limits. Of the remaining eight parameters no concentrations approached or exceeded primary drinking water standards. Only iron was found in a concentration slightly exceeding a secondary drinking water standard. The current standard for iron is .3 milligrams/liter (mg/l). The concentration found in sample S03 was .380 mg/l. Given that iron is often found in natural concentrations exceeding .3 mg/l, this slight exceedance is likely not indicative of a groundwater impact.

Of the remaining five parameters found in detectable concentrations, none represent an indication of groundwater contamination based on existing water quality criteria. Table II summarizes the water quality in S03 compared to existing drinking water standards.

5.3 Surface Water

No surface water samples were taken at the site. Since the site is no longer in use, it does appear likely that surface water would be a migration pathway. No surface currently flows through the facility except possibly some stormwater runoff which is not expected to be carrying the contaminants of concern.

5.4 Air

Air is not expected to be a contaminant migration pathway at the site and was not investigated during the SSI.

Table II

Comparison of Water Quality Results
With Drinking Water Standards

(all units in microgram/liter)

<u>Parameter</u>	<u>Concentration in SO3</u>	<u>Federal Drinking Water Standard</u>
Calcium	67,100	None
Copper	40	1,000
Iron	380	300
Lead	5.5	50
Magnesium	34,900	None
Manganese	27	50
Sodium	4,100	None
Zinc	61	5,000

Source: EPA Contract Laboratory Program.

5.5

Fire/Explosion

Neither fire or explosion are expected to be contaminant migration pathways at this site and were not investigated during the SSI.

5.6

Direct Contact

Since the site is not access restricted direct contact with on site soils is a possible migration pathway.

Samples S01 and S02 represent the conditions of the on site soils. It is not clear if these concentrations represent public health or welfare concerns through direct contact. Public health criteria for soil contamination levels exist for some parameters.

Of these, the reported soil concentrations exceed draft health based soil criteria for arsenic, and barium and beryllium. Reported arsenic concentrations of 6.1 mg/kg (S01) and 6.2 mg/kg (S02) exceed the draft health based carcinogenic criteria of .00008 mg/kg. The reported barium levels of 110 mg/kg (S01) and 130 mg/kg (S02) exceed the draft health based systemic toxicant criteria of 60 mg/kg. The reported beryllium levels of 1.0 mg/kg (S01) and 1.1 mg/kg (S02) exceed the draft health based carcinogenic criteria of .0002 mg/kg. Also, the reported chromium levels may exceed draft systemic toxicant criteria values. If the reported values represent hexavalent chromium then the draft standard of 6 mg/kg is exceeded. However if the reported concentration represents trivalent chromium then the draft standard of 1000 mg/kg is not exceeded. At this point an evaluation of the chromium concentrations is difficult because it is not known what chromium concentrations are being reported.

To properly evaluate these results a determination needs to be made if these concentrations are the result of past wastewater disposal practices. Also, a determination needs to be made concerning what public safety risk these concentrations represent and what appropriate remedial actions need to be followed. Table III summarizes the soil concentrations found on site compared to existing draft health based soil criteria. This comparison shows some future remedial action, possibly in the form of soil removal, may be required at this site. Further investigation will be required before a decision on remedial actions alternatives is made.

Table III

Comparison of Soil Results With
Health Based Soil Criteria¹
 (All concentrations mg/kg)

<u>Parameter</u>	<u>SO1</u> <u>Concentration</u>		<u>SO2</u> <u>Concentration</u>		<u>Health Based²</u> <u>Criteria</u>
Aluminum	12400		16500		-
Antimony	15	UJ	16.7	U	.5
Arsenic	6.2		6.1		.00008
Barium	110		130		60
Beryllium	1		1.1		.0002
Cadmium	1.3	U	1.4	U	-
Calcium	11200		2900		-
Chromium	20		24		1000
Cobalt	9.8		9.7		-
Copper	25		18		-
Iron	17500		20800		-
Lead	12		17		-
Magnesium	8500		3700		-
Manganese	660	U	490		-
Mercury	.1	U	.1	U	2
Nickel	21		20		-
Potassium	1200		1400		-
Silver	.5	UJ	.6	UJ	4
Sodium	500	U	555.6	U	
Thallium	.5	U	.6	U	
Vanadium	32		40		
Zinc	49		56		

Source: EPA Contract Laboratory Program.

¹ See Appendix E for complete discussion of data qualifiers.

² Criteria values selected from Tables 8-6 and 8-7 in the December, 1987 Draft of the RCRA Facilities Investigation Guidance Manual.

6. Bibliography

1. Nicotera, Ronald, 1988. Letter to L. Chern stating that no endangered species habitat exists within a 3-mile radius of the Precision Metalsmiths site, Southern District Headquarters files.
2. Wisconsin Department of Natural Resources, 1988. Sampling and Safety Plan for the Precision Metalsmiths Inc., Superfund Site, Southern District Headquarters file.
3. Wisconsin Department of Natural Resources, 1988. Site Inspection Workplan - Precision Metalsmiths Site.
4. Wisconsin Department of Natural Resources, 1988. Superfund Case File on Precision Metalsmiths.
5. United States Environmental Protection Agency, August, 1985. Preliminary Assessment - Precision Metalsmiths Inc.
6. United States Environmental Protection Agency, December, 1987. RCRA Facility Investigation Guidance Manual.
7. United States Geological Survey, various years, Markesan, Manchester, Green Lake, and Princeton East topographic quadrangles.

APPENDIX A
FOUR MILE RADIUS MAP

US EPA ID # WID 003982709

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX B



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WID00392709

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
PRECISION METALSMITHS, INC. 1149 N. MARGARET ST
03 CITY 04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST
MARKEAN WI 53946 Green Lake 047 6
09 COORDINATES 10 TYPE OF OWNERSHIP (Check one)
LATITUDE LONGITUDE
43 43 11.0 -88 27 30.0
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 02 SITE STATUS 03 YEARS OF OPERATION
5/23/88 ☐ ACTIVE ☒ INACTIVE 1959 1978 UNKNOWN
MONTH DAY YEAR BEGINNING YEAR ENDING YEAR

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR
☒ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER
(Name of firm) (Name of firm) (Specify)

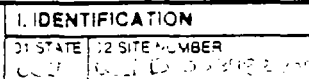
05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
MIKE SCHMOLLER	ENVIRONMENTAL SPEC.	WDNR	(608) 275-3323
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
LAURA CHERN	ENVIRONMENTAL SPEC.	WDNR	(608) 275-3239
			()
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
none			()
			()
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) 18 TIME OF INSPECTION 19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT 10:00 AM SUNNY, VERY WINDY (NNE), 75°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO		
MIKE SCHMOLLER	WDNR - SDH	(608) 275-3323		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
MIKE SCHMOLLER	WDNR	SDH	(608) 275-3323	5/23/88 MONTH DAY YEAR



<p>01. PHYSICAL STATES <small>Check all that apply</small></p> <p><input type="checkbox"/> A SOLID <input type="checkbox"/> E SLURRY</p> <p><input type="checkbox"/> B POWDER, FINES <input checked="" type="checkbox"/> F LIQUID</p> <p><input type="checkbox"/> C SLUDGE <input type="checkbox"/> G GAS</p> <p><input type="checkbox"/> D OTHER _____ <small>Specify:</small></p>	<p>02. WASTE QUANTITY AT SITE</p> <p><small>Measures of waste quantities must be independent</small></p> <p>TONS <u>2.5</u></p> <p>CUBIC YARDS _____</p> <p>NO. OF DRUMS _____</p>	<p>03. WASTE CHARACTERISTICS <small>Check all that apply</small></p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> A TOXIC</td> <td><input type="checkbox"/> E SOLUBLE</td> <td><input type="checkbox"/> I HIGHLY VOLATILE</td> </tr> <tr> <td><input type="checkbox"/> B CORROSIVE</td> <td><input type="checkbox"/> F INFECTIOUS</td> <td><input type="checkbox"/> J EXPLOSIVE</td> </tr> <tr> <td><input type="checkbox"/> C RADIOACTIVE</td> <td><input type="checkbox"/> G FLAMMABLE</td> <td><input type="checkbox"/> K REACTIVE</td> </tr> <tr> <td><input checked="" type="checkbox"/> D PERSISTENT</td> <td><input type="checkbox"/> H IGNITIBLE</td> <td><input type="checkbox"/> L INCOMPATIBLE</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> M NOT APPLICABLE</td> </tr> </table>	<input checked="" type="checkbox"/> A TOXIC	<input type="checkbox"/> E SOLUBLE	<input type="checkbox"/> I HIGHLY VOLATILE	<input type="checkbox"/> B CORROSIVE	<input type="checkbox"/> F INFECTIOUS	<input type="checkbox"/> J EXPLOSIVE	<input type="checkbox"/> C RADIOACTIVE	<input type="checkbox"/> G FLAMMABLE	<input type="checkbox"/> K REACTIVE	<input checked="" type="checkbox"/> D PERSISTENT	<input type="checkbox"/> H IGNITIBLE	<input type="checkbox"/> L INCOMPATIBLE			<input type="checkbox"/> M NOT APPLICABLE
<input checked="" type="checkbox"/> A TOXIC	<input type="checkbox"/> E SOLUBLE	<input type="checkbox"/> I HIGHLY VOLATILE															
<input type="checkbox"/> B CORROSIVE	<input type="checkbox"/> F INFECTIOUS	<input type="checkbox"/> J EXPLOSIVE															
<input type="checkbox"/> C RADIOACTIVE	<input type="checkbox"/> G FLAMMABLE	<input type="checkbox"/> K REACTIVE															
<input checked="" type="checkbox"/> D PERSISTENT	<input type="checkbox"/> H IGNITIBLE	<input type="checkbox"/> L INCOMPATIBLE															
		<input type="checkbox"/> M NOT APPLICABLE															

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	1300	lbs	2500 Bulk Chromium Hex

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

- 1) Preliminary Assessment 1985
- 2) WDNR NR101 Files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WIC00392709

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 2300 04 NARRATIVE DESCRIPTION

It is possible that heavy metals present in the process waste water may have infiltrated through the seepage pond and adjacent ditches to groundwater. Site soils are all of organic matter over sand and gravel.

01 ☒ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 0 04 NARRATIVE DESCRIPTION

It is possible that when the system was in use, that waste water may have travelled through the wetland, through a drainage way to the Grand River.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none known or expected

01 ☐ D FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none known or expected

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 1500 04 NARRATIVE DESCRIPTION

The site has no access barriers and individuals can easily walk on site.

01 ☒ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED ~ Same 04 NARRATIVE DESCRIPTION
(ACROSS)

It is possible that heavy metals from the wastewater may have contaminated the soils in the wetland.

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 2300 04 NARRATIVE DESCRIPTION

Municipal well #3 for Marikau is approximately .4 miles downstream from the impoundment. Some potential for drinking water contamination exists.

01 ☐ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none known or expected

01 ☐ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

none known or expected



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

02 03 03 39 2278

II. HAZARDOUS CONDITIONS AND INCIDENTS Continued

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known or expected

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known or expected

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known or expected

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoff, Standing liquids, Leaking drums)

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 1500

04 NARRATIVE DESCRIPTION

The site is located in an off-curve area of the highway. It is a potential spill area. The site is located in an off-curve area of the highway. It is a potential spill area.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

The land under the impoundment is used for agriculture. The land under the impoundment is used for agriculture.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known or expected

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known or expected

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 2300

IV. COMMENTS

The greatest likelihood for contamination is from the site. The site is located in an off-curve area of the highway. It is a potential spill area.

V. SOURCES OF INFORMATION (Cite specific references, e.g. State files, sample analysis reports)

1. Bureau of Transport & Development, 1975



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE WIL 02 SITE NUMBER WIL-D-539 22704

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A NPDES	<u>0041670-1</u>	<u>Aug, 1977</u>	<u>Dec, 1980</u>	<u>permit expired and was not renewed because of operational changes and the intent to a sanitary sewer.</u>
<input type="checkbox"/> B UIC				
<input type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G STATE (Specify)				
<input type="checkbox"/> H LOCAL (Specify)				
<input type="checkbox"/> I OTHER (Specify)				
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	<u>none near site with land</u>
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER <u>NONE</u>	
<input type="checkbox"/> I. OTHER (Specify)			(Specify)	

07 COMMENTS

The site operated under WPDES permit # 0041670-1.
The wastewater currently is pumped to the wastewater treatment plant. Prior to 1977 the wastewater was pumped over land to the wetland of concern. Since the wastewater now goes to the sanitary sewer no permit is in effect.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)	<input type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input checked="" type="checkbox"/> C. INADEQUATE, POOR <u>at the line of operation</u>	<input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
--------------------------------------	--	--------------------------------------	--	--

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC

The site is surrounded by a low berm. This was designed apparently to hold the wastewater on site to prevent enhanced infiltration. The berm held the wastewater during operation however, now they remove the wastewater.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO

02 COMMENTS

The site can be easily walked on to.
There is no fencing at site.

VI. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis, reports)

- 1) WILDL, Regional Preliminary Assessment, 1975
- 2) WILDL Wastewater case file



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ 00210 00039 2 1 7-09

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☐

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☒
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 0.4 (mi)
B. (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

02 POPULATION SERVED BY GROUND WATER 2300

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.4 (mi)

04 DEPTH TO GROUNDWATER

~ 70 (ft)

05 DIRECTION OF GROUNDWATER FLOW

south

06 DEPTH TO AQUIFER OF CONCERN

30 (ft)

07 POTENTIAL YIELD OF AQUIFER

unknown (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO
not federally designated

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

monitored in 11' 3' long screened to 230' on base in open hole in sandstone
0.55 depth
30' to 40' sandstone / 10' to 20' clay
20' to 40' sandstone

10 RECHARGE AREA

☐ YES ☒ NO
COMMENTS
unknown

11 DISCHARGE AREA

☐ YES ☒ NO
COMMENTS
unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED
Grand River, Little Green Lake

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Grand River ☐ 0.7 (mi)
Little Green Lake ☐ 1.0 (mi)
☐ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 1500
NO. OF PERSONS

TWO (2) MILES OF SITE
B. 2070
NO. OF PERSONS

THREE (3) MILES OF SITE
C. 2300
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~ 170

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is located on the north side of the City of Madison. It is within the city limits but on the edge of heavy urban development is just south of the site. The industrial site to the south of site is agricultural and residential property to the east.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE WI 02 SITE NUMBER WID0003922709

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A $10^{-6} - 10^{-8}$ cm/sec ☒ B $10^{-4} - 10^{-6}$ cm/sec ☐ C $10^{-4} - 10^{-3}$ cm/sec ☐ D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

30 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

2 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE
SITE SLOPE

1-3 %

DIRECTION OF SITE SLOPE

S-SE

TERRAIN AVERAGE SLOPE

12 %

09 FLOOD POTENTIAL

SITE IS IN none YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A (mi)

B 0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

 (mi)

ENDANGERED SPECIES NONE IN AREA

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

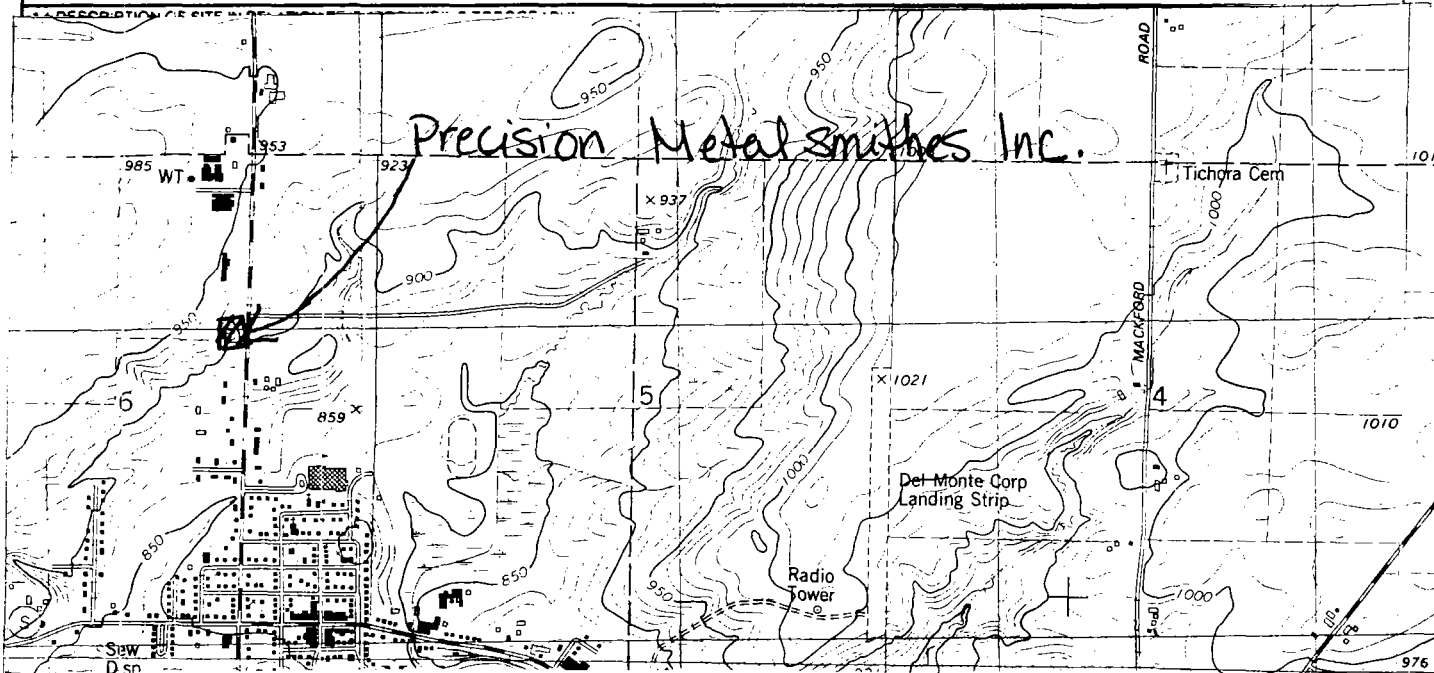
AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A 2 (mi)

B 1 (mi)

C 1 (mi)

D 1 (mi)



1. U.S.S. Topographic map, 1:50,000 scale
2. WGNIS well logs
3. WDNR Water Supply Data Book

EPA FORM 2070-13 (7-81)

4. WDNR Solid Waste and Water Supply Files
5. Preliminary Assessment done by WDNR, 1985



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IND 611D-KY 3922-1-1

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	Nance Labs, INC.	Aug 1991
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	2	Nance Labs, INC.	Aug 1991
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>WDNR Southern District</u> <small>Name of organization or individual</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>attached</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

none

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1) WDNR Solid Waste Files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WID 033482709

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME CLAY HESS		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1147 NORTH MARLBOROUGH		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY MARLBOROUGH		06 STATE WI	07 ZIP CODE 53946	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME PRECISION METALSMITHING INC.		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1149 North Marlborough		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY MARLBOROUGH		06 STATE WI	07 ZIP CODE 53946	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
1) Preliminary Assessment by WDNR, 1985							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WFD003982709

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (ICD=CAD=0)

01 NAME <i>Auto Wash Machine</i>		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (ICD=CAD=0)

01 NAME <i>Precision Metal Smiths</i>		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) <i>1149 North Margaret</i>		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY <i>Markesan</i>		06 STATE <i>WI</i>	07 ZIP CODE <i>53946</i>	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1) WDNR Solid Waste File



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WID 003982709

II. ON-SITE GENERATOR

01 NAME <i>not applicable</i>	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME <i>NA</i>	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME <i>NA</i>	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Case specific references, e.g. State files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
<i>not applicable</i>		
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> O. EMERGENCY DIKING, SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
WI WID0003982709

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

not applicable

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
LA	LA 15-00392-209

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

100-2-4-100

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 – Site Location and Inspection Information
- Part 2 – Waste Information
- Part 3 – Description of Hazardous Conditions and Incidents
- Part 4 – Permit and Descriptive Information
- Part 5 – Water, Demographic, and Environmental Data
- Part 6 – Sample and Field Information
- Part 7 – Owner Information
- Part 8 – Operator Information
- Part 9 – Generator/Transporter Information
- Part 10 – Past Response Activities
- Part 11 – Enforcement Information

Part 1 – Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 – Waste Information and Part 3 – Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 – Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items 11-01, 02, 03, 04, and 06, Site Name and Location, 11-09 Coordinates, and 11-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. **Identification:** Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *1-01 **State:** Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *1-02 **Site Number:** Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. **Site Name and Location:** If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
 - #11-01 **Site Name:** Enter the legal, common, or descriptive name of the site.
 - #11-02 **Site Street:** Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct I-295 & US 99, Post Rd, 5 mi W of Rt. 5.
 - #11-03 **Site City:** Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
 - #11-04 **Site State:** Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item 1-01.
 - #11-05 **Site Zip Code:** Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
- #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
- #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
- #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.

III. Inspection Information

- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
- *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
- *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
- III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
- III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
- III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
- III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
- III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
- III-10 Title: Enter the titles of other parties participating in the inspection.
- III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
- III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties participating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- *I. Identification: Refer to Part 1-I.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- *II-01 **Physical States:** Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
- *II-02 **Waste Quantity at Site:** Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
- *II-03 **Waste Characteristics:** Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. **Waste Category:** General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- *III-01 **Gross Amount:** Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- *III-02 **Unit of Measure:** Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
- III-03 **Comments:** Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. **Hazardous Substances:** Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 **Category:** Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 **Substance Name:** Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 **CAS Number:** Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 **Storage/Disposal Method:** Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
- IV-05 **Concentration:** Enter the concentration of the substance found in samples taken at the site.
- IV-06 **Measure of Concentration:** Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.
- V. **Feedstocks**
- V-01 **Feedstock Name:** If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 **CAS Number:** Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 **Description of Hazardous Conditions and Incidents**
- *I. **Identification:** Refer to Part 1-I.
- II. **Hazardous Conditions and Incidents:**
- II-01 **Hazards:** Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 **Observed, Potential, or Alleged:** Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 **Population Potentially Affected:** For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 **Narrative Description:** Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 **Description of Any Other Known, Potential, or Alleged Hazards:** Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. **Total Population Potentially Affected:** Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. **Comments:** Other information relevant to observed, potential, or alleged hazards may be entered here.

- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

- *I. **Identification:** Refer to Part 1—I.

II. Permit Information

- II-01 **Type of Permit Issued:** Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02 **Permit Number:** Enter the permit number for each issued permit.
- II-03 **Date Issued:** Enter the date each permit was issued.
- II-04 **Expiration Date:** Enter the date each permit expires or expired.
- II-05 **Comments:** Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01 **Storage/Disposal:** Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02 **Amount:** Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03 **Unit of Measure:** Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04 **Treatment:** If waste is treated at the site, check the appropriate box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- III-05 **Other:** If there are buildings on site, check this box.
- *III-06 **Area of Site:** Enter total area of site in acres.
- III-07 **Comments:** Enter any other pertinent information.

- IV. **Containment:** Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

- *IV-01 **Containment of Wastes:** Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
- IV-02 **Description of Drums, Diking, Liners, Barriers:** Provide a narrative description of the condition of containment measures at the site, e.g., waste adequately

quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

- V. **Accessibility:** Accessibility is an indicator of the potential for direct contact with hazardous substances.

- *V-01 **Waste Easily Accessible:** If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

- V-02 **Comments:** Additional information about accessibility to hazardous waste may be provided.

- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

- *I. **Identification:** Refer to Part 1—I.

II. Drinking Water Supply

- II-01 **Type of Drinking Water Supply:** Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- II-02 **Status:** Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03 **Distance to Site:** Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

- III-01 **Groundwater Use in Vicinity:** Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking, Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.
- III-02 **Population Served by Groundwater:** Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

- III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.
- III-04 Depth to Groundwater: Enter the depth in feet to groundwater.
- III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.
- III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.
- III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.
- III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.
- III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including useage, depth, and location relative to population and buildings.
- III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.
- III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

- IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.
- IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

- V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.
- V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

- V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.
- V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.
- V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

- VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.
- VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.
- VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.
- VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.
- VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.
- VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.
- VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.
- VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.
- VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.
- VI-10 Site is on Barrier Island, Coastal High Hazard Area Riverine Floodway: If site is located in one of these areas, check this box.
- VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.
- VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat.

of an endangered species. Enter the name(s) of the endangered species.

VI-13 **Land Use in Vicinity:** Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

VI-14 **Description of Site in Relation to Surrounding Topography:** Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

VII. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

*I. **Identification:** Refer to Part 1—I.

II. Samples Taken

II-01 **Number of Samples Taken:** Next to each sample type enter the number of samples of that type taken.

II-02 **Samples Sent To:** Enter the name of the laboratory or other facility where the samples were sent for analysis.

II-03 **Estimated Date Results Available:** Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

III-01 **Type:** Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.

III-02 **Comments:** Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

IV-01 **Type:** If photographs of the site have been taken, check the appropriate box(es) to indicate the type.

IV-02 **In Custody Of:** Enter the name of the organization or person who has custody of the photographs.

IV-03 **Maps:** Check the appropriate box to indicate that maps of the site area have been prepared or obtained.

IV-04 **Location of Maps:** If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

V. **Other Field Data Collected:** Provide a narrative description of any other field data collected.

VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

*I. **Identification:** Refer to Part 1—I.

II. **Current Owner(s) — Parent Company:** Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

II-01 **Name:** Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.

II-02 **D&B Number:** Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.

II-03 **Street Address:** Enter the business, mailing, or residential street address of the owner.

II-04 **SIC Code:** If applicable, enter the owner's primary SIC Code.

II-05 **City:** Enter the city of the owner's business, mailing, or residential address.

II-06 **State:** Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.

II-07 **Zip Code:** Enter the five digit zip code for the owner's business, mailing, or residential address.

II-08 **Name:** If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.

II-09 **D&B Number:** Enter the parent company's Dun and Bradstreet number.

II-10 **Street Address:** Enter the business or mailing street address of the parent company.

II-11 **SIC Code:** If applicable, enter the parent company's primary SIC code.

II-12 **City:** Enter the city of the parent company's business or mailing address.

II-13 **State:** Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.

II-14 **Zip Code:** Enter the five digit zip code for the parent company's business or mailing address.

III. **Previous Owner(s):** List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.

III-01 **Name:** Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

- III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.
- III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- III-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. **Realty Owner(s):** Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
 - IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
 - IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
 - IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.
 - IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Operator Information

- *I. **Identification:** Refer to Part 1-I.
- II. **Current Operator—Operator's Parent Company:** Information on operators is applicable when the operator is not the owner.
 - II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
 - II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.

- II-03 Street Address: Enter the operator's business, mailing, or residential street address.
- II-04 SIC Code: If applicable, enter the operator's primary SIC Code.
- II-05 City: Enter the city of the operator's business, mailing, or residential address.
- II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.
- II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.
- II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.
- II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.
- II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. **Previous Operator(s)—Previous Operators' Parent Companies**
 - III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.
 - III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.
 - III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.
 - III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
 - III-05 City: Enter the city of the previous operator's business, mailing, or residential address.
 - III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.
 - III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
 - III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.
 - III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

III-10 Name: If applicable, enter the legal name of the previous operator's parent company.

III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.

III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.

III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.

III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.

III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.

III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.

- IV. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

*I. Identification: Refer to Part 1-I.

- II. **On-Site Generator:** A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.

II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.

II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business or mailing street address of the on-site generator.

II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.

II-05 City: Enter the city of the on-site generator's business or mailing address.

II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.

II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.

- III. **Off-Site Generator(s):** Those companies or agencies off-site who have generated waste which has been disposed at the site are listed here.

III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.

III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the

III-03 Street Address: Enter the business or mailing street address of the off-site generator.

III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.

III-05 City: Enter the city of the off-site generator's business or mailing address.

III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.

III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.

- IV. **Transporter(s):** Those carriers who are known to have transported waste to the site are listed here.

IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.

IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.

IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.

IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.

IV-05 City: Enter the city of the transporter's business mailing, or residential address.

IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.

IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.

- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 10 Past Response Activities

*I. Identification: Refer to Part 1-I.

II. Past Response Activities

II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.

II-02 Date: Enter the start date (or approximate date) of the activity.

II-03 Agency: Enter the name of the Agency responsible for the activity.

II-04 Description: Provide a brief narrative description of the activity.

- III. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

SITE INSPECTION REPORT

Part 11 Enforcement Information

*I. Identification: Refer to Part 1-I.

II. Enforcement Information

II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action. Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III.

Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene- Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate	113. 75-99-0	2,2-Dichloropropionic Acid
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	114. 62-73-7	Dichlorvos
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzene Sulfonate	115. 60-57-1	Dieldrin
25. 13826-83-0	Ammonium Fluoborate	71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
26. 12125-01-8	Ammonium Fluoride	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
27. 1336-21-6	Ammonium Hydroxide	73. 63-25-2	Carbaryl	118. 25154-54-5	Dinitrobenzene (all isomers)
28. 6009-70-7	Ammonium Oxalate	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
29. 16919-19-0	Ammonium Silicofluoride	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
30. 7773-06-0	Ammonium Sulfamate	76. 56-23-5	Carbon Tetrachloride	121. 85-00-7	Diquat
31. 12135-76-1	Ammonium Sulfide	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
32. 10196-04-0	Ammonium Sulfite	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
33. 14307-43-8	Ammonium Tartrate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
34. 1762-95-4	Ammonium Thiocyanate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
35. 7783-18-8	Ammonium Thiosulfate	81. 7790-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
36. 628-63-7	Amyl Acetate	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
37. 62-53-3	Aniline	83. 1066-30-4	Chromic Acetate	128. 563-12-2	Ethion
38. 7647-18-9	Antimony Pentachloride	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
39. 7789-61-9	Antimony Tribromide	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylene diamine
40. 10025-91-9	Antimony Trichloride	86. 10049-05-5	Chromous Chloride	131. 106-93-4	Ethylene Dibromide
41. 7783-56-4	Antimony Trifluoride	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
42. 1309-64-4	Antimony Trioxide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
43. 1303-32-8	Arsenic Disulfide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
44. 1303-28-2	Arsenic Pentoxide	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
45. 7784-34-1	Arsenic Trichloride	91. 4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride
46. 1327-53-3	Arsenic Trioxide				

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192. 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138. 10421-48-4	Ferric Nitrate	193. 300-76-5	Naled	250. 7558-79-4	Sodium Phosphate, Dibasic
139. 10028-22-5	Ferric Sulfate	194. 91-20-3	Naphthalene	251. 7601-54-9	Sodium Phosphate, Tribasic
140. 10045-89-3	Ferrous Ammonium Sulfate	195. 1338-24-5	Naphthenic Acid	252. 10102-18-8	Sodium Selenite
141. 7758-94-3	Ferrous Chloride	196. 7440-02-0	Nickel	253. 7789-06-2	Strontium Chromate
142. 7720-78-7	Ferrous Sulfate	197. 15699-18-0	Nickel Ammonium Sulfate	254. 57-24-9	Strychnine and Salts
143. 206-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	255. 100-420-5	Styrene
144. 50-00-0	Formaldehyde	199. 12054-48-7	Nickel Hydroxide	256. 12771-08-3	Sulfur Monochloride
145. 64-18-6	Formic Acid	200. 14216-75-2	Nickel Nitrate	257. 7664-93-9	Sulfuric Acid
146. 110-17-8	Fumaric Acid	201. 7786-31-4	Nickel Sulfate	258. 93-76-5	2,4,5-T Acid
147. 98-01-1	Furfural	202. 7697-37-2	Nitric Acid	259. 2008-46-0	2,4,5-T Amines
148. 86-50-0	Guthion	203. 98-95-3	Nitrobenzene	260. 93-79-8	2,4,5-T Esters
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261. 13560-99-1	2,4,5-T Salts
150. 118-74-1	Hexachlorobenzene	205. 25154-55-6	Nitrophenol (all isomers)	262. 93-72-1	2,4,5-T Acid
151. 87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	263. 32534-95-5	2,4,5-T Acid Esters
152. 67-72-1	Hexachloroethane	207. 30525-89-4	Paraformaldehyde	264. 72-54-8	TDE
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion	265. 95-94-3	Tetrachlorobenzene
154. 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5	Pentachlorobenzene	266. 127-18-4	Tetrachloroethane
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)	210. 87-86-5	Pentachlorophenol	267. 78-00-2	Tetraethyl Lead
156. 7664-39-3	Hydrofluoric Acid (Hydrogen Fluoride)	211. 85-01-8	Phenanthrene	268. 107-49-3	Tetraethyl Pyrophosphate
157. 74-90-8	Hydrogen Cyanide	212. 108-95-2	Phenol	269. 7446-18-6	Thallium (I) Sulfate
158. 7783-06-4	Hydrogen Sulfide	213. 75-44-5	Phosgene	270. 108-88-3	Toluene
159. 78-79-5	Isoprene	214. 7664-38-2	Phosphoric Acid	271. 8001-35-2	Toxaphene
160. 42504-46-1	Isopropanolamine	215. 7723-14-0	Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
161. 115-32-2	Keithane	216. 10025-87-3	Phosphorus Oxichloride	273. 52-68-6	Trichlorfon
162. 143-50-0	Kepone	217. 1314-80-3	Phosphorus Pentasulfide	274. 25323-89-1	Trichloroethane (all isomers)
163. 301-04-2	Lead Acetate	218. 7719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
164. 3687-31-8	Lead Arsenate	219. 7784-41-0	Potassium Arsenate	276. 25167-82-2	Trichlorophenol (all isomers)
165. 7758-95-4	Lead Chloride	220. 10124-50-2	Potassium Arsenite	277. 27323-41-7	Triethanolamine
166. 13814-96-5	Lead Fluoborate	221. 7778-50-9	Potassium Bichromate		Dodecylbenzenesulfonate
167. 7783-46-2	Lead Fluoride	222. 7789-00-6	Potassium Chromate	278. 121-44-8	Triethylamine
168. 10101-83-0	Lead Iodide	223. 7722-64-7	Potassium Permanganate	279. 75-50-3	Trimethylamine
169. 18256-98-9	Lead Nitrate	224. 2312-35-8	Propargite	280. 541-09-3	Uranyl Acetate
170. 7428-48-0	Lead Stearate	225. 79-09-4	Propionic Acid	281. 10102-06-4	Uranyl Nitrate
171. 15739-80-7	Lead Sulfate	226. 123-62-6	Propionic Anhydride	282. 1314-62-1	Vanadium Pentoxide
172. 1314-87-0	Lead Sulfide	227. 1336-36-3	Polychlorinated Biphenyls	283. 27774-13-6	Vanadyl Sulfate
173. 592-87-0	Lead Thiocyanate	228. 151-50-8	Potassium Cyanide	284. 108-05-4	Vinyl Acetate
174. 58-89-9	Lindane	229. 1310-58-3	Potassium Hydroxide	285. 75-35-4	Vinylidene Chloride
175. 14307-35-8	Lithium Chromate	230. 75-56-9	Propylene Oxide	286. 1300-71-6	Xylenol
176. 121-75-5	Malthion	231. 121-29-9	Pyrethrins	287. 557-34-6	Zinc Acetate
177. 110-16-7	Maleic Acid	232. 91-22-5	Quinoline	288. 52628-25-8	Zinc Ammonium Chloride
178. 108-31-6	Maleic Anhydride	233. 108-46-3	Resorcinol	289. 1332-07-6	Zinc Borate
179. 2032-65-7	Mercaptodimethur	234. 7446-08-4	Selenium Oxide	290. 7699-45-8	Zinc Bromide
180. 592-04-1	Mercuric Cyanide	235. 7761-88-8	Silver Nitrate	291. 3486-35-9	Zinc Carbonate
181. 10045-94-0	Mercuric Nitrate	236. 7631-39-2	Sodium Arsenate	292. 7646-85-7	Zinc Chloride
182. 7783-35-9	Mercuric Sulfate	237. 7784-46-5	Sodium Arsenite	293. 557-21-1	Zinc Cyanide
183. 592-85-8	Mercuric Thiocyanate	238. 10588-01-9	Sodium Bichromate	294. 7783-49-3	Zinc Fluoride
184. 10415-75-5	Mercurous Nitrate	239. 1333-83-1	Sodium Bifluoride	295. 557-41-5	Zinc Formate
185. 72-43-5	Methoxychlor	240. 7631-90-5	Sodium Bisulfite	296. 7779-86-4	Zinc Hydrosulfite
186. 74-93-1	Methyl Mercaptan	241. 7775-11-3	Sodium Chromate	297. 7779-88-6	Zinc Nitrate
187. 80-62-6	Methyl Methacrylate	242. 143-33-9	Sodium Cyanide	298. 127-82-2	Zinc Phenolsulfonate
188. 298-00-0	Methyl Parathion	243. 25155-30-0	Sodium Dodecylbenzene Sulfonate	299. 1314-84-7	Zinc Phosphide
189. 7786-34-7	Mevinphos	244. 7681-49-4	Sodium Fluoride	300. 16871-71-9	Zinc Silicofluoride
190. 315-18-4	Mexacarbate	245. 16721-80-5	Sodium Hydrosulfide	301. 7733-02-0	Zinc Sulfate
191. 75-04-7	Monoethylamine	246. 1310-73-2	Sodium Hydroxide	302. 13746-89-9	Zirconium Nitrate
		247. 7681-52-9	Sodium Hypochlorite	303. 16923-95-8	Zirconium Potassium Fluoride
		248. 124-41-4	Sodium Methylate	304. 14644-61-2	Zirconium Sulfate
				305. 10026-11-6	Zirconium Tetrachloride

APPENDIX C

IMMEDIATE REMOVAL ACTION CHECKLIST
Precision Metalsmiths Inc.

	High	Moderate	Low
<u>Fire and Explosion Hazard</u>			
<u>Flammable Materials</u>			X
<u>Explosives</u>			X
<u>Incompatible Chemicals</u>			X
<u>Direct Contact with Acutely Toxic Chemicals</u>			
<u>Site Security</u>			X
<u>Leaking Drums or Tanks</u>			N/A
<u>Open Lagoons or Pits</u>			N/A
<u>Materials on the Surface</u>			X
<u>Proximity of Population</u>		X	
<u>Evidence of Casual Site Use</u>			X
<u>Contaminated Water Supply</u>			
<u>Exceeds 10 Day SNARL</u>			X
<u>Gross Taste or Odors</u>			X
<u>Alternate Water Available</u>			None
<u>Potential Contamination</u>			X

Is the site abandoned or active? The site is an abandoned seepage lagoon which has no barrier to site access.

COMMENTS

APPENDIX D

FIELD PHOTOGRAPHY LOG SHEET

DATE _____

TIME _____

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER _____

SITE _____

TDD # _____

PHOTOGRAPHED BY: _____

SAMPLE ID# (if applicable) _____

DESCRIPTION: _____

*There are no site photographs.
Photos were taken but did
not properly develop either because
of a malfunctioning camera or
bad film.*

FIELD PHOTOGRAPHY LOG SHEET

DATE _____

TIME _____

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER _____

SITE _____

TDD # _____

PHOTOGRAPHED BY: _____

SAMPLE ID# (if applicable) _____

DESCRIPTION: _____

APPENDIX E

ANALYTICAL RESULTS

PRECISION METALSMITHS
US EPA ID # WID 003982709

PRECISION METALSMITHS, CASE # 9416

METALS/CYANIDE ANALYSIS

Sample Number	Instrument	501	502	503
Traffic Report Number	Limit	MEU513	MEU515	MEU516
aluminum	200	12400	16500	175 U
antimony	60	15 UJ	16.7 U	60 U
arsenic	10	6.2	6.1	3 U
barium	200	110	130	50 U
beryllium	5	[1]	[1.1]	1 U
cadmium	5	1.3 U	1.4 U	5 U
calcium	5000	11200	2900	67100
chromium	10	20	24	10 U
cobalt	50	[9.8]	[9.7]	15 U
copper	25	25	18	40
iron	100	17500	20800	380
lead	5	12	17	5.5
magnesium	5000	8500	3700	34900
manganese	15	660 J	490	27
mercury	0.2	0.1 U	0.1 U	0.2 U
nickel	40	21	20	25 U
potassium	5000	[1200]	1400	2000 U
selenium	5	0.5 UJ	0.6 UJ	2 U
silver	10	2.5 U	2.8 U	10 U
sodium	5000	500 U	555.6 U	[4100]
thallium	10	0.5 U	0.6 U	2 U
vanadium	50	32	40	25 U
zinc	20	49	56	61

DATA REPORTING QUALIFIERS

- U Indicates compound was analyzed for but not detected.
- J Indicates an estimated value: This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero.
- B This flag is used when analyte is found in the blank as well as sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- B for inorganic data is used when value falls between contract required detection limit (CRDL) and the instrument detection limit (IDL)
- R Unusable.
- E Value estimated or not reported due to interference.
- N Indicates spike sample recovery is not within control limits.
- S Indicates value determined by Method of Standard Addition.

0000002

DATA QUALIFIERS
PAGE 2

Lab Name: MANCO LABORATORIES, INC.
Lab Address: Robinson Lane, RD 6
Wappingers Falls, New York

DATE REPORTED: 5/5/88

VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT-REQUIRED DETECTION LIMIT, THE VALUE IS REPORTED IN BRACKETS (i.e., [10]. THE ANALYTICAL METHOD USED IS INDICATED WITH P (FOR ICP), A (FOR FLAME AA) OR F (FOR FURNACE AA).

U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORTED WITH THE INSTRUMENT DETECTION LIMIT VALUE (e.g., 10 U).

E - INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE.

S - INDICATES A VALUE DETERMINED BY METHOD OF STANDARD ADDITION.

N - INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.

* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.

+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995

M - INDICATES DUPLICATE INJECTION RESULTS EXCEEDED CONTROL LIMITS.

P - INDICATES ICP ANALYSIS

F - INDICATES FURNACE ANALYSIS

□ - INDICATES SAMPLE VALUE IS BETWEEN IDL AND CRDL

COMMENTS :

FIELD DATA
Field Parameter/Sample Preparation

Site: Preussner Metalsmiths

Date: May 23, 1988

Analyzed by: Schmoller

Well Name or Station #	Time Filtered/ Analyzed	pH	Temp °C	Spec Cond @25°C	Acid (✓)	Cool (✓)	Analyst Initials	Comments (Color Odor Turbidity)
<u>Well #3</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>✓</u> <u>pH 4.2</u>		<u>MS</u>	<u>clear, no odor</u>
Rinse Blank								

pH meter (model #): —
(type, model, probe)

Buffers: —

Conductivity meter (model #): —
(type, model)

Standard: —

Comments: Public water supply sample

PRE/POST SAMPLING EQUIPMENT
DECONTAMINATION REPORT

Site: Pearson Metalworks

Date: 5/28/88

	Alconox Wash	Tap Rinse (3 times)	Acid Rinse 1:1 nitric	Distilled Rinse (3 times)	Acetone Rinse	Deionized (3 times)	Operator Initials	Comments
Bailers								
Bailer Cord								
Transfer Bottles								
Beakers								
Filter Holder								
Pump Tubing								
Popper								
Water Level Probe								
Bailer Field Decon Tubes								
Sample Scoop	2 single w/ 1 between samples					double use between samples	M S	prior to sampling the scoop was lab cleaned with a double alcohol wash, triple top water rinse and a single mild Q water rinse

SOIL SAMPLING
Field Data Sheet

Sample Type: Grab (X) Composite ()

Sample I.D. # 501

Site: Precision Metalworks

Date: 5/23/88

Sampled by: Schmeller

Station No.	Sampling Location	Time	Sampler Initials	Comments (color, odor, turbidity)
501	in impoundment, on site	11:00	MS	no unusual odor, dark organic color

Sample Description (depth, device, method, etc.):

sample was taken from a 6-12 inch depth, using a stainless steel scoop

Observations:

no unusual characteristics of sample noted

SOIL SAMPLING
Field Data Sheet

Sample Type: Grab (X) Composite ()

Sample I.D. # SO2

Site: Preussan Metalworks

Date: 5/23/88

Sampled by: Mike Scholler

Station No.	Sampling Location	Time	Sampler Initials	Comments (color, odor, turbidity)
SO2	in impoundment, on site	11:30	MS	no unusual odor black organic soil color

Sample Description (depth, device, method, etc.):

sample collected a 6-12 inch depth using standard steel scoop

Observations:

no unusual color or odors detected

Public
PRIVATE WATER SUPPLY WELLS
Groundwater Monitoring

Site Precision Metals

Date 5/23/88

Well Name/address	Sampling Location	Samplers Initials	Time Tap was Run	Sampling End Time*	Number of Pump Cycles	Well Const. Rpt <input checked="" type="radio"/> Y/N
Marble Well #3 Margaret Street	at sample tap in well house well was running	MS	Public well was on	1:00	1	
Comments (color, odor, turbidity): water was clear with no adverse color, odor or turbidity						

Well Name/address	Sampling Location	Samplers Initials	Time Tap was Run	Sampling End Time*	Number of Pump Cycles	Well Const. Rpt Y/N
Comments (color, odor, turbidity):						

Well Name/address	Sampling Location	Samplers Initials	Time Tap was Run	Sampling End Time*	Number of Pump Cycles	Well Const. Rpt Y/N
Comments (color, odor, turbidity):						

* Time should be recorded in military time, to the nearest 5 minutes.

WEATHER CONDITIONS REPORT FORM

site Preussan Metabomith

Location Markessan, UT

Instructions: Weather conditions should be monitored at least twice a day; once in the morning and once in the afternoon. Conditions should also be recorded if there is noticeable change.

[illegible]

DATE: October 16, 1988

TO: Danielle Valvassori
Bureau of Solid Wastes, SW/3
Wisconsin Department of Natural Resources
101 S. Webster Street
Madison, WI 53707

FROM: Richard S. Alberg

SUBJ: Quality Assurance Assessment of Pre-remedial Superfund
Samples

I have reviewed the following data per EPA Functional Guidelines
for Evaluating Inorganic Analyses:

SITE NAME: PRECISION METALSMITHS (WI) SMO CASE NO.: 9416
EPA DATA SET NO.: SF 5248 NO. OF SAMPLES: 1 WATER/2 SOILS
D.U./ACTIVITY NUMBERS: Y9051/C72222
SMO TRAFFIC NO.: MEW 513, 515, 516
CRL NO.: 88XS01S01 - S03 CLP LABORATORY: NANCO

- I. SAMPLE HOLDING TIMES: Met Requirements.
- II. CALIBRATION: Met Requirements.
- III. BLANKS: Met Requirements.
- IV. ICP INTERFERENCE CHECK SAMPLE: Positive results for antimony were reported, even though the ICS check sample does not contain antimony. Qualification of the data not required.
- V. LABORATORY CONTROL SAMPLE: The 1:100 dilution reported for the soils LCS did not give the reported values for calcium, copper, iron, and magnesium when calculated with the dilution factor. A error in reporting the dilution or a similar calculation problem seems likely. Data qualification not required.
- VI. DUPLICATES: Soil sample does not met the requirements for lead. The relative percent difference (RPD) is also exceeded for iron in the water sample with all values qualified as estimated.

VII. MATRIX SPIKE SAMPLE ANALYSIS: The percent recovery (%R) for antimony, lead and manganese were low for the soil sample. For the water sample %R for beryllium, lead and mercury were low and %R for arsenic and thallium exceeded limits. The data for all parameters with low values were qualified per criteria. It was not necessary to qualify the high parameters.

VIII. FURNACE ATOMIC ABSORPTION Q.C.: The %R for lead was exceeded on sample MEW 516. The %R of selenium was high on all samples. Form I data was qualified to reflect these out of limit conditions.

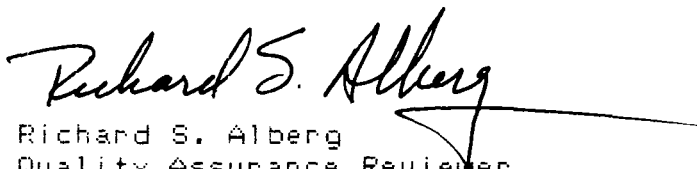
IX. ICP SERIAL DILUTION: Initial sample values reported on Form I for sample MEW 513 do not correspond to initial sample values reported on Form IX. Data is unacceptable.

X. SAMPLE RESULT VERIFICATION: Met requirements.

XI. FIELD DUPLICATES: No field duplicates were reported to the reviewer for this set of samples.

XII. OVERALL ASSESSMENT OF DATA: Many qualifiers of the data were required especially analyses performed by graphite furnace atomic absorption. This level of data qualification must be considered when evaluating the data for this site.

The data are acceptable for use with the qualifications referenced in this evaluation.


Richard S. Alberg
Quality Assurance Reviewer
State Laboratory of Hygiene

cc: Dr. William C. Sonzogni

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 9671
 LABORATORY NANCO
 SDG# _____
 SOW# _____
 DPO: ACTION _____ FYI _____

SITE Precision Metalsmith
 NO. OF SAMPLES/
 MATRIX 1 H₂O / 2 Soil
 REVIEWER (IF NOT ESD) State Laboratory of Hygiene
 REVIEWER'S NAME R. S. Albera
 COMPLETION DATE _____

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	<u>O</u>	<u>O</u>	<u>O</u>	<u>NA</u>
2. CALIBRATIONS	<u>O</u>	<u>O</u>	<u>O</u>	
3. BLANKS	<u>O</u>	<u>O</u>	<u>O</u>	
4. ICS	<u>X</u>			
5. LCS	<u>X</u>	<u>O</u>		
6. DUPLICATE ANALYSIS	<u>M</u>	<u>M</u>	<u>O</u>	
7. MATRIX SPIKE	<u>M</u>	<u>M</u>	<u>M</u>	
8. MSA		<u>M</u>		
9. SERIAL DILUTION	<u>water - O/Z - Soils</u>			
10. SAMPLE VERIFICATION	<u>O</u>	<u>O</u>	<u>O</u>	
11. OTHER QC	<u>NA</u>	<u>NA</u>	<u>NA</u>	
12. OVERALL ASSESSMENT	<u>M</u>	<u>M</u>	<u>M</u>	<u>↓</u>

O = Data had no problems/or qualified due to minor problems.

M = Data qualified due to major problems.

Z = Data unacceptable.

X = Problems, but do not affect data.

ACTION ITEMS: Soil Serial Dilution Results

AREAS OF CONCERN: Significant number of data qualifications due to problems with QA requirements. Case narrative by Inorganic Manager does not acknowledge any problems!

NOTABLE PERFORMANCE: _____

INORGANIC ANALYSIS DATA SHEET
FORM I

0000005
SMPL NO.: MEW-516

Lab Name : NANCO LABORATORIES, INC.

CASE NO.: 9671

SOW NO.: 785

Lab Receipt Date : 05/24/88

Lab Sample ID: 9671-MEW-516-658

Date Reported: 6/6/88

QC Report No.: 658

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW X

MEDIUM _____

MATRIX : WATER X

SOIL _____

SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM *Ag* 175.0 UP

13. MAGNESIUM 34900.0 P

2. ANTIMONY 60.0 UP *un*

14. MANGANESE 27.0 P

3. ARSENIC 3.0 *F* *un* ✓

15. MERCURY 0.2 U C.V. *N* *un* *RSA*
10-6-88

4. BARIUM 50.0 UP

16. NICKEL 25.0 UP

5. BERYLLIUM 1.0 UP *N* *un* *RSA*
10-6-88

17. POTASSIUM 2000.0 UP

6. CADMIUM 5.0 UP

18. SELENIUM 2.0 UFW *un* *RSA*
10-6-88

7. CALCIUM 67100.0 P

19. SILVER 10.0 UP

8. CHROMIUM 10.0 UP

20. SODIUM [4100.0] P

9. COBALT 15.0 UP

21. THALLIUM 2.0 UF *N* ✓

10. COPPER 40.0 P

22. VANADIUM 25.0 UP

11. IRON 380.0 P *N* *** *RSA*
10-6-88

23. ZINC 61.0 P

12. LEAD 5.5 *F* *un* *RSA*
10-6-88

PERCENT SOLIDS (%) NA

CYANIDE NR

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : This sample was a clear colorless liquid that was colorless after ICP
and furnace digestion procedures.

[Signature]
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

0000004

EPA SMPL NO.: MEW-515

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

SOW NO. : 785

Lab Receipt Date : 05/24/88

Lab Sample ID: 9671-MEW-515-657

Date Reported: 6/6/88

QC BATCH 657

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW X

MEDIUM _____

MATRIX : WATER _____

SOIL X

SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	16500.0 P	13. MAGNESIUM	3700.0 P
2. ANTIMONY	16.7 UP <i>~ 10-6-88</i>	14. MANGANESE	490.0 PN <i>10-6-88</i>
3. ARSENIC	6.1 F	15. MERCURY	0.1 U C.V.
4. BARIUM	130.0 P	16. NICKEL	20.0 P
5. BERYLLIUM	[1.1] P	17. POTASSIUM	1400.0 P
6. CADMIUM	1.4 UP	18. SELENIUM	0.6 UFW <i>10-6-88</i>
7. CALCIUM	2900.0 P	19. SILVER	2.8 UP
8. CHROMIUM	24.0 P	20. SODIUM	555.6 UP
9. COBALT	[9.7] P	21. THALLIUM	0.6 UF
10. COPPER	18.0 P	22. VANADIUM	40.0 P
11. IRON	20800.0 P	23. ZINC	56.0 P
12. LEAD	17.0 SF <i>~ 10-6-88</i>	PERCENT SOLIDS (%)	72.0
CYANIDE	NR		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : This sample was of a fine texture and brown/black in coloration. The sample was light yellow after ICP digestion procedures and colorless after furnace digestion procedures. Pb was analyzed at a 1:2 dilution.

[Signature]

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

0000003

EPA SMPL NO.: MEW-513

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

SOW NO. : 785

Lab Receipt Date : 05/24/88

Lab Sample ID: 9671-MEW-513-657

Date Reported: 6/2/88

QC BATCH 657

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW X

MEDIUM _____

MATRIX : WATER _____

SOIL X

SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	12400.0 P	13. MAGNESIUM	8500.0 P
2. ANTIMONY	15.0 UP <i>UA</i> <i>DSA 10-6-88</i>	14. MANGANESE	660.0 P <i>UA</i> <i>DSA 10-6-88</i>
3. ARSENIC	6.2 F	15. MERCURY	0.1 U C.V.
4. BARIUM	110.0 P	16. NICKEL	21.0 P
5. BERYLLIUM	[1.0] P	17. POTASSIUM	[1200.0] P
6. CADMIUM	1.3 UP	18. SELENIUM	0.5 UF <i>UA</i> <i>DSA 10-6-88</i>
7. CALCIUM	11200.0 P	19. SILVER	2.5 UP
8. CHROMIUM	20.0 P	20. SODIUM	500.0 UP
9. COBALT	[9.8] P	21. THALLIUM	0.5 UF
10. COPPER	25.0 P	22. VANADIUM	32.0 P
11. IRON	17500.0 P	23. ZINC	49.0 P
12. LEAD	12.0 SF <i>UA</i> <i>DSA 10-6-88</i>	PERCENT SOLIDS (%)	80.0
CYANIDE	NR		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS : This sample was of a fine texture and brown in coloration. The sample was light yellow after ICP digestion procedures and colorless after furnace digestion procedures.

[Signature]
LAB MANAGER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

PAGE 1 OF ____

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on 6-14-88

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory

TO: Data User: WDNR

We have reviewed the data for the following case(s).

SITE NAME: Precision metal Smith (WV) SMO Case No. 9671
EPA Data Set No. SF5248 No. of Samples: 3 D.U./Activity Numbers 1905102222
CRL No. 88X501501-503
SMO Traffic No. MEW513, 515, 516
CLP Laboratory: Nanco Hrs. Required for Review: _____

Following are our findings:

Unreviewed Data as per Federal
agreement

- () Data are acceptable for use.
- () Data are acceptable for use with qualifications referenced above.
See Data Qualifier sheets and Calibration Outlier forms for flags and additional comments.
- () Data are preliminary - pending verification by Contractor Laboratory.
See Case Summary above.
- () Data are unacceptable.

cc: Carla Dempsey, CLP Quality Assurance Officer, Analytical Operations Branch
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESJ/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF 5248 CERCLIS No.

SMD Case No. 9671 Site Name and Location: Precision metal Smiths

Name of Contractor or EPA Laboratory: Nanco Data User: WBNR

No. of Samples: 3 Date Samples or Data Received: 6-7-88

1. Have chain-of-custody records been received? YES ☒ NO ☐
2. Have Traffic Reports or packing lists been received? YES ☒ NO ☐
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES ☐ NO ☐
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ☒ NO ☐

Number of samples claimed: 3 Number of samples received: 3

Checked by: Colman & Harris Date: 6-14-88

Received by Contract Project Management Section: _____ Date: _____

Review Started: _____ Reviewer Signature: _____

Total time spent on review: _____ Date review completed: _____

Copied (xeroxed) by: _____ Date: _____

Mailed to Data User by: A. Harris Date: 6-15-88

DATA USERS:

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, SSCRL

Data received by: _____ Date: _____

Q.A. review received by: _____ Date: _____

Inorganic Data Complete [], Suitable for Intended Purposes [] ☒ [] if acceptable.
Organic Data Complete [], Suitable for Intended Purposes [] List problems below.
Dioxin Data Complete [], Suitable for Intended Purposes []
SAS Data Complete [], Suitable for Intended Purposes []

See Attached "Missing Data Request Form" []

PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses.
Other problems.

Received by Data Management Coordinator, CRL for File: Date: _____

Signature: _____

ORGANICS/INORGANICS

SAMPLE DATE: 01/25/85

LOG-IN DATE: 6/14/88

DUE DATE: 6/30/88

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

SUPERFUND 5248

CASE NUMBER/SAS No. 9671

SITE NAME Precision Metalsmiths LABORATORY Nanco Labs

DATE SHIPPED 5/23/88

SUPERFUND DU NUMBER Y905 EPA RPM or OSC (S.M.S.)/(CES)

PAGE 1 OF 1

ACTIVITY NUMBER 072200

[illegible]

CASE NO: 9671

SAS NO:
(IF APPLICABLE)

INORGANIC TRAFFIC REPORT

(FOR CLP USE ONLY)

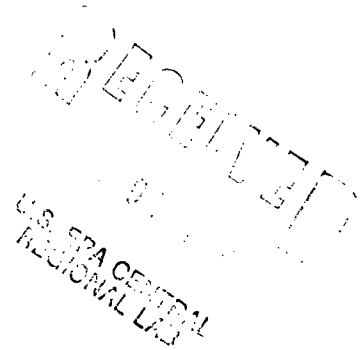
TYPE OF ACTIVITY (CIRCLE ONE) ①		SHIP TO: ③		SAMPLE DESCRIPTION ⑥	
SUPERFUND—PA <u>(S)</u> ESI RIFS RD RA ER NPLD O&M OTHER _____		Nanco Labs. Inc Road to Robinson Ln Wappinger Falls NY 125905		(ENTER IN BOX A) 4. SOIL	
NON-SUPERFUND— _____ PROGRAM		ATTN: <u>John Hattinger</u>		1. SURFACE WATER 5. SEDIMENT	
SITE NAME: <u>PREVIOUS METAL SMITHS</u>		SAMPLING DATE: <u>5/23/88</u> ④		2. GROUND WATER 6. OIL (SAS)	
CITY, STATE: SITE SPILL ID: <u>MARREGAN WI</u> <u>22</u>		BEGIN: <u>10:00</u> END: <u>11:20</u>		3. LEACHATE 7. WASTE (SAS)	
REGION NO: SAMPLING COMPANY ②		DATE SHIPPED: <u>5/23</u> CARRIER: <u>F</u> ⑤		DOUBLE VOLUME REQUIRED FOR MATRIX SPIKE/DUPLICATE AQUEOUS SAMPLE	
<u>5</u> <u>WDNR</u>		AIRBILL NO: <u>3123620114</u>		SHIP MEDIUM AND HIGH CONCENTRATION SAMPLES IN PAINT CANS	
SAMPLER: (NAME) <u>MIKE SCHMIDLER</u>				SEE REVERSE FOR ADDITIONAL INSTRUCTIONS	

[illegible]



June 6, 1988

CASE NARRATIVE: Inorganic Analysis
FOR: 68-01-7314
REFERENCE: EPA Case #9671



GENERAL PROCEDURES:

The following instrumentation is used at Nanco:


- A) Leeman Labs Simultaneous ICP Plasma-Spec 2.5 corrected for interelement background effects.
- B) Furnace AA for analysis of Pb, As, Se, and Tl. (For samples where high concentrations of these elements are present, i.e. greater than 50 ppb, ICP may be used instead.)
- C) Cold Vapor technique for Mercury.

CASE SPECIFIC:

Case #9671, consisting of 2 low soils and 1 low water, was received at Nanco Labs, Inc. on 05/24/88 in good condition.

Sample MEW-513 was chosen for spiking and duplication for the soils. Sample MEW-515 was chosen for spiking and duplication for the waters. Results falling outside of specifications are flagged the the appropriate forms.

Yours truly,


Deborah H. Smith
Inorganic Manager

0000001

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

DATE: 05/24/88

Lab Name: NANCO LABORATORIES, INC.
Lab Address: Robinson Lane, RD 6
Wappingers Falls, New YorkCase NO: 9671
Q.C. REPORT NO: 657 & 658

SOW NO: 785

Date Reported: 6/6/88

EPA ID

NANCO ID:

Sample Numbers

MEW-513

9671-MEW-513-657

MEW-515

9671-MEW-515-657

MEW-516

9671-MEW-516-658

COMMENTS :

ICP INTERELEMENT AND BACKGROUND CORRECTION APPLIED : ? YES X NO ____.IF YES, CORRECTIONS APPLIED BEFORE 2 OR AFTER ____ GENERATION OF RAW DATA.

FOOTNOTES:

0000002

Lab Name: NANCO LABORATORIES, INC.
Lab Address: Robinson Lane, RD 6
Wappingers Falls, New York

DATE REPORTED: 6/6/88

VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT-REQUIRED DETECTION LIMIT, THE VALUE IS REPORTED IN BRACKETS (i.e., [10]. THE ANALYTICAL METHOD USED IS INDICATED WITH P (FOR ICP), A (FOR FLAME AA) OR F (FOR FURNACE AA).

U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORTED WITH THE INSTRUMENT DETECTION LIMIT VALUE (e.g., 10 U).

E - INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE.

S - INDICATES A VALUE DETERMINED BY METHOD OF STANDARD ADDITION.

N - INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.

* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.

+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995

M - INDICATES DUPLICATE INJECTION RESULTS EXCEEDED CONTROL LIMITS.

P - INDICATES ICP ANALYSIS

F - INDICATES FURNACE ANALYSIS

[] - INDICATES SAMPLE VALUE IS BETWEEN IDL AND CRDL

COMMENTS :

INORGANIC ANALYSIS DATA SHEET
FORM V
SAMPLE SPIKE RECOVERY

0000016

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO.: 657

Sample ID: MEW-513

PAGE 1 OF 2

Lab Sample ID: 9671-MEW-513-657

DATE: 6/6/88

UNITS: UG/L

MATRIX: SOIL

	CONTROL LIMIT	SPIKED SAMPLE	SAMPLE	SPIKE	1
	% R	RESULTS (SSR)	RESULTS (SR)	ADDED (SA)	% R
1. ALUMINUM	75-125	45000.0	49500.0	NR	NR
2. ANTIMONY	75-125	224.0	60 U	500.0	44.8 N
3. ARSENIC	75-125	55.7	23.2	40.0	81.3
4. BARIUM	75-125	2500.0	432.0	2000.0	103.4
5. BERYLLIUM	75-125	44.0	4.0	50.0	80.0
6. CADMIUM	75-125	55.0	5 U	50.0	110.0
7. CALCIUM	75-125	62700.0	44800.0	NR	NR
8. CHROMIUM	75-125	296.0	81.0	200.0	107.5
9. COBALT	75-125	578.0	39.0	500.0	107.8
10. COPPER	75-125	353.0	98.0	250.0	102.0
11. IRON	75-125	71800.0	70000.0	NR	NR
12. LEAD	75-125	35.0	48.7 S	20.0	-68.5 N
13. MAGNESIUM	75-125	45200.0	34000.0	NR	NR
14. MANGANESE	75-125	2980.0	2620.0	500.0	72.0 N
15. MERCURY	75-125	0.80	0.2 U	1.0	80.0
16. NICKEL	75-125	607.0	83.0	500.0	104.8
17. POTASSIUM	75-125	4540.0	4890.0	NR	NR
18. SELENIUM	75-125	11.1	2 U	10.0	111.0
19. SILVER	75-125	49.0	10 U	50.0	98.0
20. SODIUM	75-125	2000 U	2000 U	NR	NR
21. THALLIUM	75-125	44.3	2 U	50.0	88.6
22. VANADIUM	75-125	637.0	129.0	500.0	101.6
23. ZINC	75-125	706.0	195.0	500.0	102.2

NR = NOT REQUIRED

J0000017

INORGANIC ANALYSIS DATA SHEET

FORM V

SAMPLE SPIKE RECOVERY

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO.: 658

Sample ID: MEW-516

PAGE 2 OF 2

Lab Sample ID: 9671-MEW-516-658

DATE: 6/5/88

UNITS: UG/L

MATRIX: WATER

	CONTROL LIMIT	SPIKED SAMPLE	SAMPLE	SPIKE	1
	% R	RESULTS (SSR)	RESULTS (SR)	ADDED (SA)	% R
1. ALUMINUM	75-125	2010.0	175 U	2000.0	100.5
2. ANTIMONY	75-125	444.0	60 U	500.0	88.8
3. ARSENIC	75-125	56.2	3 U	40.0	140.5 N
4. BARIUM	75-125	1810.0	50 U	2000.0	90.5
5. BERYLLIUM	75-125	33.0	1 U	50.0	66.0 N
6. CADMIUM	75-125	47.0	5 U	50.0	94.0
7. CALCIUM	75-125	61500.0	67100.0	NR	NR
8. CHROMIUM	75-125	174.0	10 U	200.0	87.0
9. COBALT	75-125	446.0	15 U	500.0	89.2
10. COPPER	75-125	258.0	40.0	250.0	87.2
11. IRON	75-125	1070.0	375.0	1000.0	69.5 N
12. LEAD	75-125	29.8	5.5	20.0	121.5
13. MAGNESIUM	75-125	31800.0	34900.0	NR	NR
14. MANGANESE	75-125	431.0	27.0	500.0	80.8
15. MERCURY	75-125	0.72	0.2 U	1.0	72.0 N
16. NICKEL	75-125	432.0	25 U	500.0	86.4
17. POTASSIUM	75-125	2000 U	2000 U	NR	NR
18. SELENIUM	75-125	11.5	2 U	10.0	115.0
19. SILVER	75-125	39.0	10 U	50.0	78.0
20. SODIUM	75-125	3930.0	4140.0	NR	NR
21. THALLIUM	75-125	137.0	2 U	50.0	274.0 N
22. VANADIUM	75-125	448.0	25 U	500.0	89.6
23. ZINC	75-125	481.0	61.0	500.0	84.0

NR = NOT REQUIRED

INORGANIC ANALYSIS DATA SHEET
FORM VI
DUPLICATES

0000018

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO.: 657

Sample ID: MEW-513

PAGE 1 OF 2

Lab Sample ID: 9671-MEW-513-657

DATE: 6/6/88

UNITS : UG/L

MATRIX: SOIL

	CONTROL LIMIT	SAMPLE RESULTS (S)	SAMPLE DUPLICATES RESULTS (D)	RPD
1. ALUMINUM		49500.0	50500.0	2.0
2. ANTIMONY		60 U	60 U	NC
3. ARSENIC		24.8	23.2	6.7
4. BARIUM		432.0	441.0	2.1
5. BERYLLIUM		4.0	4.0	NC
6. CADMIUM		5 U	5 U	NC
7. CALCIUM		44800.0	45600.0	1.8
8. CHROMIUM		81.0	84.0	3.6
9. COBALT		39.0	41.0	NC
10. COPPER		98.0	96.0	2.1
11. IRON		70000.0	71400.0	2.0
12. LEAD		48.7 S	74.0 S	41.2 *
13. MAGNESIUM		34000.0	34800.0	2.3
14. MANGANESE		2620.0	2670.0	1.9
15. MERCURY		0.2 U	0.2 U	NC
16. NICKEL		83.0	84.0	1.2
17. POTASSIUM		4890.0	5190.0	NC
18. SELENIUM		2 U	2 U	NC
19. SILVER		10 U	10 U	NC
20. SODIUM		2000 U	2000 U	NC
21. THALLIUM		2 U	2 U	NC
22. VANADIUM		129.0	131.0	1.5
23. ZINC		195.0	197.0	1.0

NC = NON CALCULABLE RPD DUE TO VALUE(S) LESS THAN ~~CDL~~ IDL

INORGANIC ANALYSIS DATA SHEET

FORM VI
DUPLICATES

J000019

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO.: 658

Sample ID: MEW-516

PAGE 2 OF 2

Lab Sample ID: 9671-MEW-516-658

DATE: 6/2/88

UNITS : UG/L

MATRIX: WATER

	CONTROL LIMIT	SAMPLE RESULTS (S)	SAMPLE DUPLICATES RESULTS (D)	RPD
1. ALUMINUM		175 U	175 U	NC
2. ANTIMONY		60 U	60 U	NC
3. ARSENIC		3 U	3 U	NC
4. BARIUM		50 U	50 U	NC
5. BERYLLIUM		1 U	1 U	NC
6. CADMIUM		5 U	5 U	NC
7. CALCIUM		67100.0	67200.0	0.1
8. CHROMIUM		10 U	10 U	NC
9. COBALT		15 U	15 U	NC
10. COPPER		40.0	42.0	4.9
11. IRON		375.0	239.0	44.3 *
12. LEAD		5.5	6.5	16.7
13. MAGNESIUM		34900.0	34800.0	0.3
14. MANGANESE		27.0	24.0	11.8
15. MERCURY		0.2 U	0.2 U	NC
16. NICKEL		25 U	25 U	NC
17. POTASSIUM		2000 U	2000 U	NC
18. SELENIUM		2 U	2 U	NC
19. SILVER		10 U	10 U	NC
20. SODIUM		4140.0	4250.0	NC
21. THALLIUM		2 U	2 U	NC
22. VANADIUM		25 U	25 U	NC
23. ZINC		61.0	59.0	3.3

NC = NON CALCULABLE: RPD DUE TO VALUE(S) LESS THAN CRDL

CRDL for Fe is 100 ug/l
See form VII and others
IDR Reported to be 70 ug/l

INORGANIC ANALYSIS DATA SHEET
FORM VII
INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

0000021

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO. : 657 & 658

LCS = 0287

PAGE 2 OF 4

DATE: 6/6/88

	REQUIRED DETECTION	INSTRUMENT DETECTION		LAB	CONTROL	SAMPLE
	LIMITS (CRDL) UG/L	LIMITS (IDL) UG/L		UG/L OR	MG/KG DRY WEIGHT (CIRCLE ONE)	
		C.V.	FURNACE 4			
		**	***	TRUE	FOUND	% R
1. ALUMINUM	200	NR	NR	NR	NR	NR
2. ANTIMONY	60	NR	NR	NR	NR	NR
3. ARSENIC	10	NR	NR	NR	NR	NR
4. BARIUM	200	NR	NR	NR	NR	NR
5. BERYLLIUM	5	NR	NR	NR	NR	NR
6. CADMIUM	5	NR	NR	NR	NR	NR
7. CALCIUM	5000	NR	NR	NR	NR	NR
8. CHROMIUM	10	NR	NR	NR	NR	NR
9. COBALT	50	NR	NR	NR	NR	NR
10. COPPER	25	NR	NR	NR	NR	NR
11. IRON	100	NR	NR	NR	NR	NR
12. LEAD	5	NR	NR	NR	NR	NR
13. MAGNESIUM	5000	NR	NR	NR	NR	NR
14. MANGANESE	15	NR	NR	NR	NR	NR
15. MERCURY	0.2	0.2	NR	12.7	9.35	74
16. NICKEL	40	NR	NR	NR	NR	NR
17. POTASSIUM	5000	NR	NR	NR	NR	NR
18. SELENIUM	5	NR	NR	NR	NR	NR
19. SILVER	10	NR	NR	NR	NR	NR
20. SODIUM	5000	NR	NR	NR	NR	NR
21. THALLIUM	10	NR	NR	NR	NR	NR
22. VANADIUM	50	NR	NR	NR	NR	NR
23. ZINC	20	NR	NR	NR	NR	NR

NR = NOT REQUIRED

** = VARIAN SPECTRA AA

*** = VARIAN SPECTRA 30/40 ZEEMAN

INORGANIC ANALYSIS DATA SHEET
FORM VII
INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

0000022

Lab Name : NANDO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO. : 657 & 658

LCS = EPA MADE

PAGE 3 OF 4

DATE: 6/10/88

	REQUIRED DETECTION	INSTRUMENT DETECTION		LAB	CONTROL	SAMPLE
	LIMITS (CRDL) UG/L	LIMITS (IDL) UG/L		UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)		
		ICP: 3	FURNACE 5,6			
		**	***	TRUE	FOUND	% R
1. ALUMINUM	200	175	NR	1980	2070	105
2. ANTIMONY	60	60	NR	1010	1050	104
3. ARSENIC	10	NR	3	11.8	11.7	99
4. BARIUM	200	50	NR	1980	2000	101
5. BERYLLIUM	5	1	NR	481	472	98
6. CADMIUM	5	5	NR	489.0	510.0	104
7. CALCIUM	5000	800	NR	49800	48700	98
8. CHROMIUM	10	10	NR	506.0	525.0	104
9. COBALT	50	15	NR	474.0	520.0	110
10. COPPER	25	15	NR	542.0	537	99
11. IRON	100	70	NR	1990	1970	99
12. LEAD	5	120	NR	4510.0	4580.0	102
13. MAGNESIUM	5000	750	NR	25000	26100	104
14. MANGANESE	15	15	NR	513	499	97
15. MERCURY	0.2	NR	NR	NR	NR	NR
16. NICKEL	40	25	NR	496.0	459.0	93
17. POTASSIUM	5000	2000	NR	50200	51900	103
18. SELENIUM	5	NR	2	13.0	12.6	97
19. SILVER	10	10	NR	509	505	99
20. SODIUM	5000	2000	NR	50700	51400	101
21. THALLIUM	10	NR	2	12.2	13.5	111
22. VANADIUM	50	25	NR	511.0	509.0	100
23. ZINC	20	10	NR	3100.0	3070.0	99

NR = NOT REQUIRED

** = LEEMAN

*** = VARIAN SPECTRA 30/40 ZEEMAN, VARIAN SPECTRA 30/40 ZEEMAN

INORGANIC ANALYSIS DATA SHEET
FORM VII
INSTRUMENT DETECTION LIMITS AND LABORATORY CONTROL SAMPLE

0000023

Lab Name : NANCO LABORATORIES, INC.

Case NO.: 9671

QC REPORT NO.: 657 & 658

LCS = EPA MADE

PAGE 4 OF 4

DATE: 6/6/88

	REQUIRED DETECTION	INSTRUMENT DETECTION		LAB	CONTROL	SAMPLE
	LIMITS (CRDL) UG/L	LIMITS (IDL) UG/L		UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)		
		C.V.	FURNACE 4			
		**	***	TRUE	FOUND	% R
1. ALUMINUM	200	NR	NR	NR	NR	NR
2. ANTIMONY	60	NR	NR	NR	NR	NR
3. ARSENIC	10	NR	NR	NR	NR	NR
4. BARIUM	200	NR	NR	NR	NR	NR
5. BERYLLIUM	5	NR	NR	NR	NR	NR
6. CADMIUM	5	NR	NR	NR	NR	NR
7. CALCIUM	5000	NR	NR	NR	NR	NR
8. CHROMIUM	10	NR	NR	NR	NR	NR
9. COBALT	50	NR	NR	NR	NR	NR
10. COPPER	25	NR	NR	NR	NR	NR
11. IRON	100	NR	NR	NR	NR	NR
12. LEAD	5	NR	1	12.2	14.3	117
13. MAGNESIUM	5000	NR	NR	NR	NR	NR
14. MANGANESE	15	NR	NR	NR	NR	NR
15. MERCURY	0.2	0.2	NR	5.2	5.43	104
16. NICKEL	40	NR	NR	NR	NR	NR
17. POTASSIUM	5000	NR	NR	NR	NR	NR
18. SELENIUM	5	NR	NR	NR	NR	NR
19. SILVER	10	NR	NR	NR	NR	NR
20. SODIUM	5000	NR	NR	NR	NR	NR
21. THALLIUM	10	NR	NR	NR	NR	NR
22. VANADIUM	50	NR	NR	NR	NR	NR
23. ZINC	20	NR	NR	NR	NR	NR

NR = NOT REQUIRED

** = VARIAN SPECTRA AA

*** = VARIAN SPECTRA 30/40 ZEEMAN

APPENDIX F

WELL LOGS

PRECISION METALSMITHS
US EPA ID # WID 003982709

Markesan, Village well, Markesan, Wisconsin

NW 1/4, NE 1/4, Sec. 7, T 14N, R 13E

I. E. Brown, Driller, July 1958

Sample Nos. 202072-202131 - Examined by J. B. Steuerwald

25	0- 5	5	Fill, brown, dolomitic, sandy, stony, clayey	13'	41' Water Lvl.
	5- 15	10	Peat, black, little quartz sand, few pebbles (from above?)		18" Hole
	15- 25	10	Till, brown, dolomitic, consists of clay to pebble size particles		16" Casing
50	25- 35	10	Sandstone, fine grained, pale red, silty, shaly, some chert & dolomite fragments (St. Peter Conglomerate?)	13'	41' Water Lvl.
	35- 45	10	Sandstone, fine & medium grained, pink-brown-gray, silty, some dolomite fragments (drift?)		53' 8"
	45- 55	10	Sandstone, medium grained, light brown, dolomitic, some chips of dolomite		15" Hole
	55- 70	15	Sandstone, fine grained, cream		10" Casing
10	70- 75	5	Sandstone, fine grained, pink, few large quartz grains	103'	
10	75- 80	5	Sts. pale red, sandy		
10	80- 85	5	Sts. very dolomitic, pale red & yellow-brown		
10	85- 90	5	Sts. & Dolomite, pink & buff, sandy, slgt glauconitic		
110	90- 95	5	gn. Dol. pnk & gn-gry. & Sandstone, fn, few C grns, glauconitic	105'	
	95-100	5	Sandstone, fn, some siltstone, buff-gn-gry, dolitic		
	100-105	5	Sandstone, M, buff, glauconitic, dolomitic		
	105-125	20	Sandstone, coarse & medium grained, buff, dolomitic		
110	125-145	20	Sandstone, medium & coarse grained, buff, dolomitic	10" Hole	
	145-170	25	Sandstone, medium grained, buff, dolomitic		
	170-175	5	Sandstone, fn & M, buff, dolomitic		
	175-185	10	Sandstone, fn, buff & light gray, many dolomitic sandstone chips		
110	185-190	5	Sandstone, Vfn, some sts, gn-gry & pnk-gry.		
	190-200	10	Sandstone, fine grained, & Dolomite, pink, glauconitic		
	200-205	5	Sandstone, fine & medium grained, cream, dolomitic		
	205-210	5	Sandstone, C to some fn, light gray		
95	210-230	20	Sandstone, fn to some C, very light gray		
	230-250	20	Sandstone, fn to some M, very light gray		
	250-300	50	Sandstone, medium grained, some fine grained, crushed?, light gray		
					301'

Formations: - Drift, Trempealeau Formations - Jordan Member, Lodi Member, St. Lawrence Member, - & Franconia, Drexbach - Undifferentiated

Well tested for 10 hrs at 480 gpm with 12 ft. of drawdown.
Specific capacity = 40.0 gpm per ft. of drawdown.

Well name: Markesan Village Well #3

refr. material
(fyi)

Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
130-165		Sandstone	Tl tan	C	Vfn/VC	Tr Vfn/C glauconite, dolomite cement, matrix, Fe cement.
165-170		"	"	"	"	Same.
170-175		"	"	"	"	Tr Vfn/C glauconite, dol cement, red shale, Fe cement.
175-180		"	"	"	"	Same but no red shale, trace purple shale.
180-185		"	"	Fn & M	"	Little dolomite cement, Vfn/C glauconite, shaly matrix, Tr cem.
185-190		"	"	"	"	Same.
190-195		"	"	Fn	Vfn/C	Much shaley matrix. Little Vfn/C glauc. Tr dol cem. Fe cem.
195-200		"	"	"	Vfn/VC	Same but little dolomite cement.
200-205		"	"	Fn AC	"	Same.
205-210		"	Tan	"	"	Little Vfn/C glauconite. Trace dolomite cement.
210-215		"	"	"	"	Same.
215-220		"	"	"	"	"
220-225		"	"	C	"	Trace glauconite, dolomite cement.
225-230		"	"	Fn & M	"	Little glauconite. Trace dolomite cement.
230-235		"	"	Fn	"	Same.
235-240		"	Fl yl tan	M & C	"	---
240-245		"	"	"	"	---
245-250		"	"	"	"	---
250-255		"	"	C	"	---
255-260		"	Tan	M & C	"	---
260-265		"	"	"	"	---
265-270		"	"	"	"	---
270-275		"	"	"	"	---
275-280		"	"	"	"	---
280-285		"	"	"	Vfn/C	---
285-290		"	"	"	Vfn/VC	---
290-295		"	"	"	"	---
295-300		"	"	"	"	---
300-305		NO SAMPLE. Driller reports hard sandstone.				
305-310		NO SAMPLE. Driller reports hard sandstone.				
310-315		Sandstone	Tan	M	Vfn/VC	---
315-320		"	"	M & C	"	---
320-325		"	"	"	"	---
325-330		"	"	M	"	---
330-335		"	"	"	Fn/VC	---
335-340		"	"	"	Vfn/C	---
340-345		"	"	"	"	---
345-350		"	"	Fn & M	Vfn/VC	Trace green shaley matrix.
350-355		"	"	"	"	---
355-360		"	"	M & C	"	---
360-365		NO SAMPLE. Driller reports hard sandstone.				
365-370		Sandstone	Tan	M & C	Vfn/VC	---
370-375		"	"	M	"	---
375-380		"	"	M & C	"	---
380-385		"	"	M	"	---
385-390		"	"	"	"	---
390-395		"	"	"	"	Trace purple shale.
395-400		"	"	M & C	"	---
END OF LOG						

Well name Markesan City Well #3 County: Green Lake R. 13E.
Completed... 2/2/73
Field check.
Altitude.... 850' ETM
Use..... Municipal
Static w.l. .4'
Spec. cap... 11 GPM/ft

Owner.... City of Markesan
Address... City Hall
Markesan, WI 53946
Driller.. Ace Well Drilling
Engineer. General Engineering Co., Inc.
Portage, Wisconsin

Sec. 6

Quad. Markesan 7 1/2'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt. & Kind	from	to	Dia.	Wgt. & Kind	from	to
21"	0	100'				22"	New Black Steel PE. 44#/ft	0	36'	8"	Johnson scrn liner 29#/ft	99'	104'
15 1/4"	100'	400'				16"	New Blk Steel PE. 62.58#/ft	+3'	109'	8"	Johnson scrn liner 29#/ft	104'	119'
						8"	liner 29#/ft	94'	99'	8"	Johnson scrn liner 29#/ft	119'	159'
										8"	Johnson scrn liner 29#/ft	159'	174'
										8"	Johnson scrn liner 29#/ft	174'	189'
										8"	Johnson scrn liner 29#/ft	189'	224'
Grout: Kind												from	to
Neat Cement												0	109'
Neat cement												200'	230'

Samples from 0 to 400' Rec'd: 8/18/72 Studied by: M. Roshardt Issued: 5/20/83

Formations: Drift, St. Peter Sandstone (Readstown Member), Jordan Formation, Tunnel City Group, Elk Mound Group.

Remarks: Well drilled by cable tool method.
Well tested for 12 hours at 934 GPM with 82 feet of drawdown.

LOG OF WELL:

	Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
					Mode	Range	
D R I F T	0-5		Silt	Or brown	---	---	Little Vfn and fn sand.
	5-10		"	"	---	---	Same plus trace gravel.
	10-15		NO SAMPLE. Driller reports clay.				
	15-20		Sand	Dr brown	M	Vfn/VC	Trace silt, organic matter.
	20-25		"	"	"	Vfn/C	Same.
30	25-30		"	"	"	Vfn/VC	"
R E A D S T O W N	30-35		Shale	Rd br sand	---	---	Little sandy dolomite.
	35-40		"	"	---	---	Little sandy silicified dol, chert, sandstone, sand.
	40-45		"	"	---	---	Much sand. Little silicified sandstone. Trace chert.
	45-50		Sandstone	Or tan	C	Vfn/VC	Many granules of silicified ss (some Eau Claire?), much silicified dol. Ltl chert, sh.
	50-55		"	"	M	"	Same.
	55-60		"	"	"	"	"
	60-65		"	"	"	"	"
	65-70		"	"	M & C	"	"
	70-75		"	"	C	"	"
	75-80		Sandstone	Pnk tan	M & C	Pn/VC	"
Jor	80-85		"	"	Pn & M	Vfn/C	Trace green micaceous shale.
15	85-90		"	"	"	Vfn/VC	Same.
	90-95		"	"	Pn & C	"	Little silica cement. Trace green shales, red shales.
T U N N E L	95-100		Sandstone	Or tan	Pn	Vfn/VC	Much shaly matrix, Vfn/C glauconite, dolomite cement.
	100-105		"	"	"	"	Same.
	105-110		"	Pl gn tan	Pn & M	Vfn/C	Much Vfn/C glauconite. Little dolomite cement, shaly matrix.
	110-115		"	"	"	"	Same.
	115-120		"	Yl tan	M	"	Little Vfn/C glauc. Trace dol cement, shaly matrix.
	120-125		"	"	"	"	Same.
	125-130		"	"	C	Vfn/VC	"
	130-135		"	"	"	"	"
	135-140		"	"	"	"	Trace Vfn/C glauconite, dolomite cement, matrix.
	140-145		"	"	"	"	Same.
	145-150		"	"	"	"	Same plus trace purple shale.
	150-155		"	"	"	"	Same but no shale.
	155-160		"	"	"	"	Same plus trace Pa cement.